

21. Statement IE gives the duty of water on the different canals. That of 6·97 acres per cubic foot for the High Level Canal, Range II, is evidently incorrect, and is due to the loss on account of navigation, of which apparently no account is kept, and to escape through temporary outlets, the area under irrigation being also very small.

DUTY OF WATER.

The duty on the remaining canals for the kharif crop on the discharge utilised varies from 182 acres for the Taldundah system to 85 acres for the High Level Canal, Range III.

The absence of distributaries practically vitiates the results from the High Level Canal, Ranges II and III.

The Kendrapara Canal system includes the Pattamoondi and Gobri Canals, for which also no distributaries have been provided, and the Superintending Engineer shows that, taking the Kendrapara Canal separately, the duty is 106 acres.

The under-mentioned canals give, therefore, probably the best results, but even these cannot be considered trustworthy:—

	Duty on discharge at head.	Duty on discharge utilised.
Kendrapara Canal ...	92	106
Taldundah Canal system ...	112	182
High Level Canal, Range I ...	110	169

The duties calculated on the gross discharge at the head are pretty even, but they cannot be relied upon, for in the High Level Canal no allowance is made for water flowing into the canal through drainage inlets, and the Kendra-

para Canal irrigating the largest area, 30,872* acres against 18,576 for the Taldundah, and 12,400 for the High Level, gives the lowest duty. No reason is assigned for the high duty on the Taldundah Canal. Taking the duty on the discharge utilised, the Kendrapara canal still gives the lowest result, but the quantity utilised, 291 cubic feet out of 343 as given by the Superintending Engineer, is proportionately much larger than that utilised on the other two canals.

The area of rabi under all canals being small, the calculations of duty are valueless.

22. During the year 175 experiments on the outturn of crops were made, 91 of which were upon irrigated areas. The outturn in the case of both irrigated and unirrigated land was below the average of the previous five years by 4·05 maunds of paddy and 6·36 maunds of straw per acre for the former, and 2·73 maunds paddy and 3·91 maunds straw for the latter. No explanation is forthcoming as to why the falling off on the irrigated crop was greater than on the unirrigated. The total average outturn for the year was 15·66 maunds of paddy and 23·87 maunds of straw on irrigated, and 12·25 of paddy and 19·29 of straw on unirrigated land. The increased value per acre of produce in favour of irrigation was Rs. 3·86.

EXP.

23. The revenue establishment of the year cost Rs. 37,005. The following statement shows the details, and compares the figures of the year under review with the similar figures of the two previous years:—

REVENUE ESTABLISHMENT.

	1886-87.	1887-88.	1884-85.
<i>Establishment under Collector.</i>	Rs.	Rs.	Rs.
Superior officers and permanent establishment, including travelling allowance ...	26,007	21,028	23,691
Contingencies ...	2,625	1,918	1,890
Headmen's fees ...	1,209	1,249	3,168
<i>Establishment under Executive Engineer.</i>			
Permanent and temporary establishment ...	2,942	2,854	2,786
Contingencies ...	...	...	61
Water regulation establishment ...	4,222	4,245	4,198
Total ...	37,005	31,391	36,094
Collections of water-rates and miscellaneous revenue by the Canal Revenue Department ...	1,05,775	1,16,940	59,111
Percentage ...	34·98	29·3	61·0

NAVIGATION.

24. The receipts under the head "Navigation" amounted to Rs. 67,048, of which Rs. 8,384 were on account of the earnings of the transport service, and Rs. 58,664 from tolls on boats and rafts. The collections for ten years under the above heads are given in the table below:—

			Tolls.	Transport service.	Total.
			Rs.	Rs.	Rs.
1877-78	...	...	33,844	...	33,844
1878-79	...	...	57,042	...	57,042
1879-80	...	...	62,389	35,686	98,075
1880-81	...	...	41,297	30,105	71,402
1881-82	...	...	53,219	29,987	83,206
1882-83	...	...	66,736	41,737	1,08,473
1883-84	...	...	61,602	48,550	1,10,152
1884-85	...	...	52,784	27,018	79,802
1885-86	...	...	64,093	19,919	84,012
1886-87	...	...	58,664	8,384	67,048

TRAFFIC.

25. The following statement compares the traffic of all the canals in Orissa during the year under review with that of the year preceding:—

CANALS.	Miles open.	Tollage.		Number of boats.		Tonnage.		Value of cargo.		Tollage per mile of canal.	
		1886-87.	1885-86.	1886-87.	1885-86.	1886-87.	1885-86.	1886-87.	1885-86.	1886-87.	1885-86.
		Rs.	Rs.	No.	No.	Tons.	Tons.	Rs.	Rs.	Rs.	Rs.
Taldandah and Machong Canals.	31	2,880	1,714	725	619	14,081	13,843	57,972	53,245	929	57.5
Kendrapara and Gohri Canals (including extension).	75	41,786	49,572	5,959	9,233	60,139	107,181	30,80,180	31,75,780	557.1	647.8
High Level Canal, Range I.	33	7,852	8,749	3,321	4,330	16,075	29,442	6,25,505	11,10,570	207.0	265.1
High Level Canal, Range II.	124	3,788	3,762	2,902	3,888	19,410	20,024	3,32,112	5,49,020	303.0	300.1
High Level Canal, Range III.	10	2,338	1,236	1,404	1,792	11,793	9,533	1,60,416	1,18,512	124.1	65.0
Total	1704	58,861	61,993	14,311	20,062	128,398	190,142	42,58,185	40,92,735	344.1	573.9

There is a falling off from the previous year under all heads, due to the accident to the Mahanuddy weir, which reduced the level of the water in the Mahanuddy and Berupa rivers to such an extent as to seriously interfere with the navigation of the canals during the last four months of the year.

The *up* traffic on these canals was during the year considerably in excess of the *down*. This was due entirely to the falling off in the exports of grain, partly on account of the impeded navigation, and in a greater measure to the absence of floods in the Mahanuddy, which prevented grain being brought down as usual from Sumbhalpur; 19,594 tons of grain only were carried against 57,941 tons in the previous year.

PASSENGERS.

26. There was again a considerable increase in the passenger traffic on all, but chiefly on the Taldandah Canal.

TRANSPORT SERVICE.

27. The steamer services between Chandbally and Cuttack by way of the Kendrapara Canal continued to be maintained by the same three companies as worked the traffic in the previous year, in conjunction with the ocean steamers running from Calcutta, though under difficulties on account of the low supply in the upper reaches of the Kendrapara Canal.

The only line of steamer navigation now worked by Government in the Orissa Circle, in fact in Bengal, is that on the High Level Canal between Cuttack and Bhuddruck, a distance of 75 miles by canal and river; and during the year under review the steamers *Pioneer* and *Aurora* were employed upon this line. In consequence of the accident to the Mahanuddy weir, the working of the service was seriously interrupted and unsatisfactory.

The working expenses and earnings of the steamers amounted, respectively, to Rs. 12,247 and Rs. 8,384, the result being a loss of Rs. 3,863 against the profit of Rs. 3,379, which was obtained in the year preceding. This was chiefly due to the interrupted service mentioned above, and also to the difficulty in keeping free from silt the navigable channel across the Brahmini river, so that often cargo and passengers had to be taken to their journey's end by tracking; more especially was this the case when, after

October, on account of the bad state of her boiler, the *Pioneer* had to be taken off the service, and only one steamer was available for it.

28. The miscellaneous receipts for the year under review are compared by sub-heads with those of the previous year in the following table:—

MISCELLANEOUS
RECEIPTS.

SOURCE OF REVENUE.	YEAR IN WHICH RECEIVED.		DIFFERENCE.	
	1886-87.	1885-86.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
Plantations ...	1,885	981	904	.....
Rent of lands ...	5,340	7,337	.....	1,997
Canal produce ...	676	1,508	.....	832
Rent of buildings ...	4,936	4,739	197	.....
Sale of old materials ...	35	4	31	.....
Fisheries ...	650	493	157	.....
Sale of water ...	86	190	.....	104
Miscellaneous ...	1,979	1,244	735	.....
Total ...	15,587	16,496	2,024	2,933

The most serious falling off is under the head "Rent of lands." This appears to be due to the rule having been introduced of giving only annual leases to prevent the acquisition of rights of occupancy. The result has been either a decrease in the area leased out, or in the rents obtained, though it is not very clear which.

29. The total revenue for the last ten years under the three main heads is shown in the following statement:—

REVENUE.

YEARS.	Water-rates.	Navigation.	Miscellaneous.	Total.
	Rs.	Rs.	Rs.	Rs.
1877-78 ...	1,17,818	33,844	9,445	1,61,107
1878-79 ...	1,16,416	57,042	16,484	1,89,942
1879-80 ...	1,57,747	98,075	23,365	2,79,187
1880-81 ...	1,78,047	71,402	20,329	2,69,778
1881-82 ...	1,24,290	83,206	15,655	2,23,151
1882-83 ...	1,80,325	1,08,473	31,212	3,20,010
1883-84 ...	1,11,856	1,10,152	15,860	2,37,868
1884-85 ...	51,245	79,802	12,538	1,43,585
1885-86 ...	1,06,842	84,012	16,496	2,07,350
1886-87 ...	96,976	67,048	15,587	1,79,611

30. The working expenses (direct charges) of the Orissa canals for the last ten years are shown in the following statement:—

WORKING
EXPENSES.

PARTICULARS.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1.—Maintenance.										
Works, including transport service ...	1,87,046	1,47,113	2,58,749	1,99,554	2,17,763	2,23,431	1,89,564	2,03,137	2,21,200	3,52,761
Establishment, including direction and accounts ...	39,508	39,073	61,016	45,896	50,108	61,163	43,690	50,168	51,199	81,117
Tools and plant ...	8,234	17,338	6,389	12,266	13,945	14,963	11,292	15,167	19,159	16,496
Compensation ...	41	623	512	777	411	385	68	78	0	92
Refunds of revenue ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Direct expenditure in England ...	.....	.....	1,265	1,265	1,090	2,061	.....	.....	.....	.....
Total maintenance ...	1,77,828	2,04,047	3,20,832	2,59,765	2,89,533	2,99,960	2,44,577	2,69,111	2,91,554	4,49,466
2.—Revenue management.										
Irrigation establishment ...	32,332	37,098	38,794	38,812	37,023	37,023	39,492	32,000	34,504	37,065
Navigation ...	6,012	7,445	8,153	7,501	8,086	13,575	14,681	12,398	13,219	10,471
Total Revenue management ...	38,344	44,543	46,947	46,313	45,109	50,598	54,173	44,398	47,723	47,536
Total working expenses ...	2,16,172	2,48,590	3,67,779	3,06,078	3,34,642	3,50,558	2,98,750	3,13,509	3,39,277	4,97,002

* Exclusive of Rs. 427 paid in England

A comparison of the figures in the two foregoing statements shows the loss in working the canals during the last six years, which was as follows:—

					Rs.
1881-82	...	...	...	...	1,05,509
1882-83	...	...	...	...	21,530
1883-84	...	...	...	...	54,822
1884-85	...	...	...	...	1,72,152
1885-86	...	...	...	...	1,35,227
1886-87	...	...	...	...	3,22,321

The figures include direct charges only.

MAINTENANCE.

31. The following statement shows by sub-heads the cost of maintenance, exclusive of that of the transport service, during the year under review, with the corresponding figures of the past two years:—

			1886-87.	1885-86.	1884-85.
			Rs.	Rs.	Rs.
Head works	...	...	2,34,500	61,899	67,581
Main canals	...	...	74,913	1,09,225	93,145
Distributaries	...	...	21,458	24,321	22,929
Drainage works	...	...	15,512	16,807	6,125
Total	...	...	3,46,383	2,12,452	1,89,780

The great increase in the cost of maintenance is entirely under head works, all other main heads of expenditure showing a decrease.

WEIRS.

32. A breach took place in the Mahanuddy anicut on the first rise of the river at the end of June, involving a portion of the north end of the centre sluices and adjoining weir wall. A heavy outlay was incurred in the first instance in constructing a stone dam; the total expenditure on the repairs of the weir, including maintenance, amounted to Rs. 1,70,478 against Rs. 16,773 for the previous year. The repairs to the breach were not completed within the year, and a portion of the expenditure thereon will therefore fall on the year 1887-88. An accident also occurred to the Naraj weir, the greater number of the piers of the shore sluices being overturned in the month of September; the cost of repairs was Rs. 16,872 against Rs. 8,686 in 1885-86. In this case also the repairs were not completed within the year. There was excess expenditure also on the Beropa, Bhrumini, Pattia and Barraha weirs over the outlay of the previous year; due, in the case of the last three weirs, to extensive repairs being required to the aprons; and, in the case of the Beropa, to the necessity for deepening the channel above for navigation, and to increase the flow down the river for the purpose of facilitating the repairs of the Mahanuddy weir. The average cost of repairs per foot run of the seven weirs was increased from Rs. 2.79 in the previous year to Rs. 12.20.

MAIN CANALS.

33. The following statement shows the expenditure for the year 1886-87, and the three previous years, on the maintenance of the canals:—

CANALS.	Miles.	1886-87.		1885-86.		Miles.	1884-85.		1883-84.	
		Cost.	Per mile.	Cost.	Per mile.		Cost.	Per mile.	Cost.	Per mile.
		Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
Kendrapara	39	21,084	538	20,783	530	39	24,643	632	20,823	533
Kendrapara Extension	16	2,741	171	2,096	131	16	4,448	278	2,795	175
Gobri	15	5,975	398	7,906	527	15	5,301	353	6,923	462
Gobri Extension	6	3,009	501	9,161	1,527	6	...	...	...	...
Pattisunder	37	6,240	169	8,263	223	37	7,314	198	6,160	166
Taldumch	27	9,071	336	14,213	526	27	10,487	388	10,852	402
Machigong	19	4,641	244	2,901	153	19	5,785	304	8,306	437
High Level, Range I	31	12,462	399	15,899	513	31	14,008	452	18,206	587
Do, do, II	13	5,265	405	6,653	512	13	8,275	636	8,577	659
Do, do, III	10	6,215	622	10,621	1,062	10	7,792	779	6,961	696
Total	234	74,913	322	1,09,225	467	234	93,145	401	93,825	401

It is satisfactory to notice that the mileage rates for the maintenance of all canals has diminished, the only exception being the Machgong Canal. The decrease is partly attributed to the saving in work establishment and "miscellaneous." Dredging silt and weed-clearing also were required less on most of the lines, whilst on some the decrease was in a great measure due to the expenditure in 1885-86 having been abnormal on account of the cyclone of September 1885. The canals were closed for silt clearance as below:—

NAME OF CANAL.	Date when closed.	Date when re-opened.
Kondrapara Canal and branch to Albia ...	2nd May 1886	5th June 1886.
Ditto and extension to Jumboo ...	2nd " "	7th " "
Taldundah Canal ...	1st May " "	19th " "
Machgong Canal ...	1st " "	19th " "
High Level Canal, Range I ...	2nd May " "	8th " "
Ditto, do. II ...	2nd " "	4th " "
Ditto, do. III ...	2nd " "	4th " "

34. No return has been furnished of the silt clearance of Ranges II and III of the High Level Canal. On the remaining canals, 4,411,838 cubic feet of silt was cleared by hand at a cost of Rs. 12,807, or at an average rate of Rs. 2-14-6 per 1,000 cubic feet.

DREDGING AND
SILT CLEARANCE

The quantity of silt cleared by dredging on the same canals was 124,066 cubic feet, at a cost of Rs. 2,089, or at an average rate of Rs. 16-13 per 1,000 cubic feet.

35. The following statement shows the cost of repairs to distributaries for the year 1886-87, and the three previous years:—

DISTRIBUTARIES

	1886-87.			1885-86.			1884-85.			1883-84.		
	Miles.	Cost.	Per mile.	Cost.	Per mile.	Miles.	Cost.	Per mile.	Miles.	Cost.	Per mile.	
DISTRIBUTARIES.		Rs.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	
Kondrapara Canal system ...	337	11,373	33-17	13,158	39	336	12,398	36	336	15,480	47	
Taldundah Canal ...	714	2,232	3-11	2,297	3-2	714	2,289	3-2	714	2,734	3-8	
Machgong Canal ...	1224	4,021	3-29	3,743	3-0	1224	4,129	3-4	1224	4,338	3-5	
High Level Canal, Range I ...	1172	4,081	3-48	5,323	4-5	1171	3,143	2-7	1171	5,238	4-5	
Total ...	6447	21,707	33-27	24,521	38	641	22,929	35	6397	27,750	43	

The mileage rate for maintenance has decreased on all canals except the Machgong Canal, and in all cases the rate is low.

MIDNAPORE CANAL.

36. The Capital, Interest, and Revenue account of this canal are given below:—

1.—CAPITAL ACCOUNT.

CAPITAL
ACCOUNT

HEADS OF ACCOUNT.	Outlay during 1886-87.	Outlay to end of 1886-87.
DIRECT CHARGES.	Rs.	Rs.
I.—Works ...	1,549	53,42,508
II.—Establishment ...	(—) 44	19,22,385
III.—Tools and plant ...	(—) 3,058	8,96,967
IV.—Suspense accounts ...	3,409	35,967
V.—Loss by exchange ...	.....	91,800
Total ...	4,856	82,92,527
VI.—Less receipts on Capital account ...	(—) 31	30,535
Net total ...	4,887	82,61,992
INDIRECT CHARGES.		
Capitalization of abatement of land revenue ...	.....	16
Leave and pension allowances ...	(—) 6	1,83,560
Total ...	(—) 6	1,83,576

2.—INTEREST ACCOUNT.

	Rs.
Interest charges to end of 1885-86 ...	44,26,254
Ditto for 1886-87 ...	3,30,382
Total ...	47,56,636

3.—REVENUE ACCOUNT (actuals).

REVENUE
ACCOUNT.

	EXPENDITURE.			RECEIPTS.	
	During 1886-87.	To end of 1886-87.		During 1886-87.	To end of 1886-87.
<i>I.—Works, Maintenance and Repairs.</i>	Rs.	Rs.		Rs.	Rs.
Works (extensions and improvements)		40,738	Water-rates ...	1,08,834	13,61,321
Maintenance and re- pairs, including com- pensation	1,37,752	17,52,476	Navigation ...	1,09,693	14,05,100
Establishment, includ- ing direction and accounts ..	31,677	4,00,403	Miscellaneous ...	15,658	1,62,549
Tools and plant ...	25,003	2,45,680			
Total ...	1,94,432	21,39,297			
<i>II.—Revenue manage- ment.</i>					
Irrigation establish- ment ...	24,154	3,11,718			
Navigation establish- ment ..	7,575	1,19,429			
Total ...	31,729	4,31,147			
<i>III.—Refunds of revenue</i> ...	211	3-4			
Total working ex- penses ...	2,26,372	28,70,828			
Profit ..	7,813	58,142			
Total ...	2,34,185	29,28,970	Total ...	2,34,185	29,28,970

The total capital outlay (direct charges) up to the end of the year 1886-87 amounted to Rs. 82,61,992. The estimates sanctioned by the Secretary of State being for Rs. 83,16,768, there remained a balance of Rs. 54,776 at the close of the year, but it is expected that the capital account of this canal will be closed at an early date.

The interest charges of this canal up to the end of the year 1885-86 have been revised in accordance with the orders of the Government of India.

37. The revenue account calculated on the "earnings" of the year is given below. Direct charges only are shown:—

EXPENDITURE.	Amount.	EARNINGS.	Amount.
<i>I.—Works, Maintenance and Repairs.</i>	Rs.		Rs.
Works (extensions and improvements) ...	...	Water-rates ...	1,06,750
Maintenance and repairs ...	1,37,752	Navigation ...	1,09,693
Establishment, including direction and accounts ...	31,677	Miscellaneous ...	15,1
Tools and plants ...	25,003		
Total ...	1,94,432		
<i>II.—Revenue management.</i>			
Irrigation establishment ...	24,154		
Navigation ditto ...	7,575		
Total ...	31,729		
<i>III.—Refunds of Revenue</i> ...	211		
Total working expenses ...	2,26,372		
Profit ...	5,729		
Total ...	2,32,101	Total ...	2,32,101

The water-rates on lands irrigated during the year are due within the year. The amount of water-rates shown as earned includes arrear assessments for former years.

38. The following table shows the rainfall for the year 1886-87 and the three previous years:—

STATIONS.	1886-87.	1885-86.	1884-85.	1883-84.	Average of 17 years previous to 1886-87.
	Inches.	Inches.	Inches.	Inches.	Inches.
Midnapore ...	40.39	76.20	57.10	44.07	56.40
Panchkoorah ...	50.56	86.03	43.81	51.92	56.61
Coutai ...	48.24	76.45	77.30	70.31	70.29

The rainfall during the year under review was considerably less than that of the previous year, and below the average of seventeen years previous to the year 1886-87. It was, however, well and seasonably distributed, so that the demand for canal water was not very pressing, and there was no loss from excessive rainfall anywhere in the irrigable area.

39. The area under lease, which is the same as the area irrigated, was 69,762 acres against 70,604 irrigated in the previous year. No rabi leases were executed, and 256 acres only were under annual leases, leaving 69,506 acres under five-year leases up to the end of the year against 67,399 for the previous year. Of the above leases, 20,285 acres expired on the 31st March 1887, including 256 acres under annual lease. The total area under lease may be thus classified:—

	Acres.
Leases which expired on 31st March 1887	20,285
" " will expire " 1888	32,875
" " " " " 1889	12,530
" " " " " 1890	2,276
" " " " " 1891	1,796
Total	69,762

Two hundred and fifty-six acres were surreptitiously irrigated and assessed, but afterwards admitted as annual leases, being also the total of such leases. Since no five-year leases expired in 1885-86 (see last year's Note), the leases for 1,796 acres shown above as expiring on 31st March 1887 may be taken as *new* leases executed during the year under review. Of this large area of 20,029 acres under five-year leases which expired on the 31st March 1887, it is stated that leases for 11,483 acres had been renewed up to the end of July 1887.

AREA IRRIGATED.

40. The following table compares the irrigation of the year 1886-87 with that of the two previous years, and gives the proportions between the areas irrigated and commanded:—

PARTICULARS.	Total is provided for in the revised estimate.	Midnapore Weir, Ranges IV and V.			Panchkoora Weir, Range III, and Tota Ranches, Ranges I and II.			Total.		
		1886-87.	1885-86.	1884-85.	1886-87.	1885-86.	1884-85.	1886-87.	1885-86.	1884-85.
Length of distribution and branch canals Miles	290'12	229'04	229'04	229'04	57'25	53'25	52'25	236'19	285'19	283'19
Area provided with distributaries Acres	125,000	100,000	100,000	100,000	25,000	25,000	25,000	125,000	125,000	125,000
Area irrigated	—	62,225	60,580	60,352	7,537	10,024	8,942	69,762	70,604	60,294
Percentage of area irrigated to that commanded	—	62'22	60'58	60'35	30'25	40'10	35'77	55'81	56'48	48'43

Of the total area 88 acres only were irrigated by lift. The entire area irrigated by this canal is rice.

COMPLAINTS.

41. There is no information about complaints against the assessments or under any other head, and the remarks made on this point in paragraph 18, under the Orissa Canals, apply also to this canal. The information should be supplied in future.

DUTY OF WATER.

42. The duty of water for the four months of the kharif season from July to October is given by the Superintending Engineer, for the discharge utilized, as 134 acres per cubic foot for the area under the Midnapore weir, and 231 acres for that under the Panchkoora weir. This represents a total depth of 21 inches over the whole area in the former case, and 12 inches in the latter for four, or may be five, waterings. This difference is probably due to the fact that the area under the Panchkoora weir is low lying as compared with that under the Midnapore weir. In a year of seasonable rainfall, therefore, the former would be more likely to be benefited by drainage supplementing the water received from the canal: this would be the case with the lands under the Midnapore weir.

43. The following comparative statement shows the balances, assessments, and recoveries of water-rates on the Midnapore Canal since the year 1882-83:—

YEAR.	Amount outstanding at commencement of year.	Amount falling due during the year.	Total for recovery.	Cash realization.	Remitted or written off.	Balance at the end of the year.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1882-83	1,31,701	1,54,046	2,86,347	1,04,060	33,811	1,42,476
1883-84	1,42,476	1,47,992	2,90,468	1,31,900	14,777	1,44,691
1884-85	1,44,691	1,22,321	2,67,012	1,16,807	38,993	1,11,212
1885-86	1,11,212	1,10,868	2,22,080	1,08,709	43,399	69,972
1886-87	69,972	1,06,760	1,76,722	1,08,834	17,139	60,749

COLLECTIONS.

The amount of the cash realisations was almost identically the same as that of the previous year, although the total for recovery was considerably less, the percentage of collections being 61'01 of the whole, which may be considered a favourable result. The amount of remissions, which were, practically, entirely arrears of previous years, has sensibly decreased; but this result was to be anticipated, considering the large remissions of arrears in the previous two years. The balance outstanding at the end of the year shows improvement, and the Deputy Revenue Superintendent is hopeful that all arrears will be cleared off in the present year, and the realisations of the current demand thereby facilitated.

REMISSIONS.

CERTIFICATE
PRODUCED.

44. There were 6,965 certificates filed against 17,501 for the previous year, the falling off being attributed to the large number previously issued under the peremptory orders of Government for the recovery of all arrears.

45. There is a slight increase in the cost of revenue establishment under the Collector, the amount being Rs. 23,064 against Rs. 21,875 for the previous year. The percentage of cost on the total collections, which amounted to Rs. 1,23,769, is 18.63 against 17.89 for the previous year.

REVENUE
ESTABLISHMENT.

46. The total receipts under the head of Navigation amounted to Rs. 1,09,693 against Rs. 1,37,578 for the previous year, showing a considerable decrease. Of the total Rs. 8,639 was on account of tolls from the Calcutta Steam Navigation Company, and Rs. 1,01,054 was the tollage on private boats and rafts.

NAVIGATION.

47. The table below gives the usual particulars regarding the traffic for the last ten years :—

COMPARISON OF TRAFFIC.

DESCRIPTION.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.
Miles open ... No.	53	53	53	53	53	53	53	53	53	53
Toll collections ... Rs.	1,08,917	77,310	91,841	77,143	88,980	1,06,157	1,08,911	1,09,797	1,25,331	(a) 1,01,054
Rate of tolls per mile ... Rs.	2,055	1,450	1,733	1,450	1,680	2,003	2,055	2,071	2,364	1,906
Number of boats ... No.	52,251	48,279	52,041	45,141	51,101	52,354	52,009	47,611	42,210	(c) 15,760
Tonnage of ... Tons	390,904	290,489	370,927	292,152	332,331	360,973	345,979	412,379	372,808	(d) 187,410
Passengers carried ... No.	125,013	128,008	180,204	166,238	202,029	181,351	170,716	...	...	(b) 112,130
Estimated value of cargo ... Rs.	1,71,09,394	1,50,51,350	1,56,41,400	1,43,15,868	1,47,70,791	1,63,43,032	1,70,63,406	1,57,02,306	1,27,22,175	97,55,587

NOTE.—Length open is inclusive of river crossings.

(a) Exclusive of Rs. 8,639 tolls from Steam Navigation Company.

(b) Exclusive of 90,443 passengers carried by Company's steamer.

(c) Includes 15,066 passenger boats and 12,287 empty boats.

(d) Includes 81,419 and 11,554 tons passenger and empty boats, respectively.

There was a very considerable falling off in the toll collections. Of the total number of boats plying, the number carrying cargo was 18,466 against 19,892 for the previous year. This decrease is due to the slackness in the export trade of grain on account of its low price in the Calcutta market. The number of boats and the gross tonnage shows an increase, but this is chiefly under the head of passenger boats, the number being 15,066 against 7,788 for the previous year.

48. The collections of the year under the head "Miscellaneous" aggregated Rs. 15,658 against Rs. 16,197 collected during the year 1885-86.

MISCELLANEOUS.

49. The statements below show the receipts on revenue account and working expenses of the Midnapore canal since 1877-78; the figures are for direct charges only :—

REVENUE AND
WORKING EXPENSES.

REVENUE RECEIPTS.

YEARS.	Water-rates.	Navigation.	Miscellaneous.	Total.
	Rs.	Rs.	Rs.	Rs.
1877-78 ...	53,483	1,06,917	9,693	1,70,093
1878-79 ...	85,014	77,340	8,356	1,70,710
1879-80 ...	1,30,140	1,05,518	11,567	2,47,225
1880-81 ...	1,12,960	93,009	10,407	2,16,468
1881-82 ...	1,18,588	1,20,706	10,780	2,50,074
1882-83 ...	1,04,060	1,46,922	17,028	2,68,010
1883-84 ...	1,31,000	1,20,580	12,916	2,64,576
1884-85 ...	1,16,807	1,28,747	12,401	2,57,955
1885-86 ...	1,08,709	1,37,578	16,197	2,62,484
1886-87 ...	1,08,334	1,09,693	15,658	2,34,185

WORKING EXPENSES.

PARTICULARS.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Works, Maintenance and Repairs.										
Works and repairs ...	1,41,354	1,00,211	94,488	1,21,607	1,35,114	1,40,067	1,27,028	1,34,036	1,24,557	1,37,753
Compensation ...	...	...	...	...	...	...	30	...	...	...
Establishment including direction and accounts ...	33,008	28,513	19,168	20,100	31,021	32,218	20,342	30,822	28,051	31,077
Tools and plant ...	5,117	13,083	17,038	17,075	30,449	31,364	31,220	25,591	25,062	25,003
Retains of revenue ...	17	...	...	...	...	...	44	112	...	211
Total ...	1,80,476	1,60,807	1,30,686	1,58,682	2,02,644	2,03,639	1,88,273	1,91,561	1,79,460	1,94,043
Revenue management.										
Irrigation establishment ...	16,189	14,802	16,377	15,101	16,371	24,737	19,802	24,004	22,700	24,154
Navigation ditto ...	7,121	7,427	7,349	7,437	7,519	14,101	7,511	7,509	7,610	7,575
Total ...	23,310	22,229	23,727	22,538	23,890	38,838	27,313	31,513	30,310	31,729
Total working expenses ...	2,03,786	1,79,836	1,54,413	1,81,220	2,26,534	2,36,077	2,15,586	2,23,074	2,09,770	2,25,772

MAINTENANCE.

50. On head works the expenditure was Rs. 9,149 against Rs. 12,864 in the previous year. The expenditure on weirs was Rs. 1.60 per foot run of the Midnapore weir, and Rs. 3.92 for the Panchkura weir, against Rs. 3.24 and Rs. 1.13, respectively, the year previous. Repairs to the under sluices of the former were omitted, as there was no closure of the upper reaches, and in the case of the latter weir extensive repairs were carried out to the under sluice shutters.

The following table shows the maintenance charges per mile of main canal and distributaries since the year 1880-81:—

YEAR.	MAIN CANAL.			DISTRIBUTARIES.		
	Length of reach, exclusive of river crossings.	Total cost of work.	Rate per mile.	Length of distributary channels.	Total cost of works.	Rate per mile.
	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.
1880-81	48	80,993	1,687	267	20,140	75
1881-82	48	1,03,010	2,146	277	11,854	43
1882-83	48	1,04,831	2,183	277	20,407	73
1883-84	48	1,06,625	2,210	277	21,198	76
1884-85	48	1,15,171	2,399	277	18,865	68
1885-86	48	1,10,550	2,299	277	14,424	52
1886-87	48	1,20,135	2,503	283	17,617	63

NOTE.—The increase in the length of distributaries is not due to any additional length completed during the year, but to the correct measurement being given.

The expenditure on main canal includes the head works and, as well as the expenditure on distributaries, shows an increase over that of the previous year. Exceptional repairs and alterations were carried out on the tidal locks at a cost of Rs. 36,892 against Rs. 13,694 and Rs. 7,184 during the two preceding years. Special repairs were also carried out to the Damian lock at a cost of Rs. 5,967. Under earthwork Rs. 23,043 was expended in the silt clearance of the tidal reaches by hand labour, a quantity of 4,555,514 cubic feet being removed at a cost of Rs. 5-10-9 per 1,000 cubic feet. The silt clearance of the first reach of the canal was again omitted this year. The cost of silt clearance by dredging was Rs. 22,688.

DREDGING.

51. The only silt clearance carried out by dredging was in the lock entrances of the tidal reaches, very little work being done in the reaches themselves which, as stated above, were cleared by hand. The outturn of the hydraulic dredgers *Atlas* and *Ajax* averaged 2,775 and 6,200 cubic feet per day respectively, not by any means a favourable result, but one which would be accounted for by the work being carried out in a tide-way and with frequent interruptions. The cost of excavation in the case of the *Ajax* was Rs. 4.13 per 1,000 cubic feet, and in the case of the *Atlas* Rs. 18.83. The former rate is an improvement on that of the preceding year, while the latter is exceptionally high, and due to the *Atlas* requiring thorough repairs. The total quantity of work done by all dredgers was 2,496,525 cubic feet at a cost, including removal of silt in barges, of Rs. 9-1 per 1,000 cubic feet.

RECEIPTS AND EXPENDITURE.

52. The subjoined table shows the receipts and expenditure, including indirect charges, for the last five years, and the net revenue:—

YEAR.				Receipts.	Expenditure.	Net revenue.
				Rs.	Rs.	Rs.
1882-83	...	...	...	2,68,010	2,46,502	+ 21,508
1883-84	...	...	...	2,64,576	2,23,586	+ 40,990
1884-85	...	...	...	2,57,955	2,31,915	+ 26,040
1885-86	...	...	...	2,62,484	2,18,127	+ 44,357
1886-87	...	...	...	2,34,185	2,38,249	- 1,064

The result for the year is most disappointing, and is mainly due to the diminished receipts on account of navigation and the increased expenditure on account of the special repairs to tidal locks.

HEDGELEE TIDAL CANAL.

53. The Capital, Interest, and Revenue Accounts are given below:—

1.—CAPITAL ACCOUNT.

CAPITAL ACCOUNT.

HEADS OF ACCOUNT.			Outlay during 1886-87.	Outlay to end of 1886-87.
			Rs.	Rs.
DIRECT CHARGES.				
I.—Works	12,66,239
II.—Establishment	4,49,790
III.—Tools and plant	57,585
IV.—Suspense accounts
V.—Loss by exchange	22,790
Total			17,96,404
VI.—Less receipts on Capital Account	915
Net Total			17,95,489
INDIRECT CHARGES.				
Capitalization of abatement of land revenue	11,210
Leave and pension allowances	33,597
Total			44,807

2.—INTEREST ACCOUNT.

			Rs.
Interest charges to end of 1885-86	...	...	11,15,323
Ditto for 1886-87	...	...	71,820
Total	...	...	11,87,143

3.—REVENUE ACCOUNT (ACTUALS)

REVENUE ACCOUNT.

	EXPENDITURE.			RECEIPTS.	
	During 1886-87.	To end of 1886-87.		During 1886-87.	To end of 1886-87.
I.—Works, Maintenance and Repairs—	Rs.	Rs.		Rs.	Rs.
Works (extensions and improvements) ...	.....	3,033	Water-rates ...	.....	2,611
Maintenance and repairs ...	11,988	3,71,768	Navigation ...	51,994	7,09,319
Establishment, including direction and accounts ...	2,756	85,971	Miscellaneous ...	2,500	16,665
Tools and plant ...	4,155	19,498			
Total ...	18,899	4,80,270			
II.—Revenue management—					
Navigation Establishment ...	3,026	46,848			
III.—Refunds of revenue ...	910	910			
Total working expenses ...	22,835	5,28,028			
Profit ...	31,569	2,00,567			
Total ...	54,404	7,28,595	Total ...	54,404	7,28,595

The works of which this canal consists were completed in 1873. A supplementary estimate for this project, amounting to Rs. 10,39,571, was submitted in March 1886 to the Government of India in connection with the revised estimate for the Orissa Coast Canal. It has been received back for further information regarding its financial prospects, and is being further revised on account of alteration in the works, but is expected to be ready for resubmission on an early date.

The interest charges have been recalculated from the commencement in accordance with the orders of the Government of India. The total receipts on revenue account were Rs. 54,404 against Rs. 52,455 for the previous year. The increase is due to miscellaneous receipts entirely, the navigation receipts being Rs. 51,904 against Rs. 52,143 for 1885-86.

54. The table below gives the usual particulars regarding the traffic since the year 1877-78.

COMPARISON OF TRAFFIC.

PARTICULARS.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.
Miles open ... No.	20	20	20	20	20	20	20	20	20	20
Toll collections ... Rs.	60,971	59,723	44,918	53,338	45,848	43,694	62,317	41,382	52,143	51,904
Rate of tolls per mile of canal ... Rs.	2,102.42	2,986.41	1,518.80	1,839.20	1,541.00	1,500.00	2,145.00	1,427.00	1,798.00	1,795.00
Number of boats ... No.	23,882	22,560	16,311	21,793	20,057	17,145	22,738	17,680	19,316	17,542
Tonnage of do. ... Tons.	158,433	164,608	1,26,421	1,57,781	1,33,920	1,32,884	1,98,764	1,45,424	1,63,535	142,747
Passengers carried ... No.	1,052	3,633	3,002	3,631	3,284	3,510	.....	.....	.....	5,560
Estimated value of cargo ... Rs.	31,50,503	41,55,323	25,60,031	23,54,751	21,19,854	23,83,244	36,42,090	30,90,562	32,74,041	31,48,024

The traffic in grain was slightly less than that of the previous year owing, it is believed, to the price of rice and paddy having fallen in the Calcutta market.

It is probable, however, that, but for the silted up state of this canal, the traffic would have shown on the whole an increase.

55. There was an increase of Rs. 2,188 in miscellaneous receipts, chiefly on account of fisheries.

56. The following tables show the receipts on revenue account and working expenses of the canal for the last ten years; the figures are for direct charges only:—

REVENUE RECEIPTS.

YEAR.	Navigation.	Miscellaneous.	Total.	Working expenses.	Net revenue.
	Rs.	Rs.	Rs.	Rs.	Rs.
1877-78	60,971	1,309	62,280	30,564	31,716
1878-79	59,723	1,070	60,793	23,180	37,613
1879-80	44,918	863	45,781	42,284	3,497
1880-81	53,338	1,149	54,487	25,590	28,897
1881-82	45,848	1,446	47,294	28,678	18,616
1882-83	43,694	1,338	45,032	40,570	4,462
1883-84	62,317	1,273	63,590	46,581	17,009
1884-85	41,382	2,125	43,507	36,886	6,621
1885-86	52,143	312	52,455	48,609	3,846
1886-87	51,904	2,500	54,404	22,835	31,569

WORKING EXPENSES.

PARTICULARS.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Maintenance and repairs ...	21,463	16,580	30,607	18,901	19,479	20,464	22,054	22,903	24,099	17,366
Establishment ...	5,486	3,804	5,794	2,299	4,497	5,775	7,593	6,178	7,848	2,780
Tools and plant ...	164	.....	.....	1,444	1,834	1,363	2,784	392	3,534	4,186
Total ...	27,113	20,384	36,401	22,644	25,810	27,602	32,431	30,473	35,481	24,332
Navigation establishment ...	2,405	2,797	2,843	2,956	2,809	2,973	3,215	3,554	3,148	2,000
Refunds of revenue ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	510
Total working expenses ...	30,564	23,180	42,244	25,600	28,619	40,576	46,581	36,886	48,609	26,842

The decrease in working expenses and consequent increased profit is due to the silt clearance of the canal having been postponed pending the consideration of the estimate for remodelling the canal.

TRAFFIC.

MISCELLANEOUS
RECEIPTS.REVENUE
RECEIPTS AND
WORKING EXPEN-
SES.

SONE CANALS.

57. The Capital, Interest and Revenue Accounts of these canals are given below:—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.				Outlay during 1886-87.	Outlay to end of 1886-87.
DIRECT CHARGES.				Rs.	Rs.
I.—Works	...	...	...	1,30,836	1,79,75,576
II.—Establishment	...	...	...	26,705	50,41,853
III.—Tools and plant	...	...	...	17,175	20,90,276
IV.—Suspense accounts	...	...	...	( - ) 37,904	1,42,140
V.—Loss by exchange	...	...	...	.....	52,240
Total				1,36,812	2,53,02,085
VI.—Less receipts on capital account	...	...	...	93	3,04,018
Net total				1,36,719	2,49,98,067
INDIRECT CHARGES.					
Capitalization of abatement of land revenue	...	...	...	157	37,631
Leave and pension allowances	...	...	...	3,739	8,55,114
Total indirect charges				3,896	8,92,745

2.—INTEREST ACCOUNT.

				Rs.	
Interest charges to end of 1885-86	...	...	...	1,05,24,014	
Ditto for 1886-87	...	...	...	9,97,188	
Total				1,15,21,202	

3.—REVENUE ACCOUNT (ACTUALS).

	EXPENDITURE.			RECEIPTS.	
	During 1886-87.	To end of 1886-87.		During 1886-87.	To end of 1886-87.
	Rs.	Rs.		Rs.	Rs.
<i>I.—Maintenance and repairs.</i>					
Repairs ...	3,08,757	29,07,168	Water-rates ...	8,26,161	55,06,318
Compensation ...	8	2,463	Navigation ...	51,254	5,63,734
Establishment, including direction and accounts ...	71,066	7,32,689	Miscellaneous ...	37,714	3,81,503
Tools and plant ...	27,698	1,46,451			
Total ...	4,07,529	37,88,771			
<i>II.—Revenue management.</i>					
Irrigation establishment ...	1,43,660	10,30,356			
Navigation establishment ...	14,535	1,41,656			
Total ...	1,58,195	11,72,012			
<i>III.—Refunds of Revenue</i>					
... ..	15,737	46,452			
Total working expenses ...	5,81,461	50,07,235			
Profit ...	3,36,963	15,34,320			
Total ...	9,18,429	65,41,555	Total ...	9,18,429	65,41,555

REVENUE ACCOUNT.

EARNINGS.

58. The income and expenditure calculated on "earnings" of the year are shown below: direct charges only are given:—

EXPENDITURE.	Amount.	EARNINGS.	Amount.
<i>I.—Maintenance and Repairs.</i>	Rs.		Rs.
Repairs	3,07,757	Water-rates	6,95,084
Compensation	8	Navigation	54,254
Establishment, including direction and accounts	71,066	Miscellaneous	37,714
Tools and plant	27,698		
Total	4,07,529		
<i>II.—Revenue management</i>			
Irrigation establishment	1,43,660		
Navigation establishment	14,535		
Total	1,58,195		
<i>III.—Refunds of Revenue.</i>	15,737		
Total working expenses	5,81,461		
Profit	2,05,593		
Total	7,87,054	Total	7,87,054

The water-rates "earned" during the year on the Sone Canals represent the amount of the demand statements which reached the Collectors during the year.

LENGTHS OF CANALS.

59. The areas commanded and irrigable, and lengths of canals and distributaries open, are shown in the table following:—

DIVISION.	Navigable canals.	Branch canals.	Distributaries.	Gross area under command.	Maximum discharge of canal.	AREA WHICH CAN BE IRRIGATED.		
						Kharif.	Rabi.	Total.
	Miles.	Miles.	Miles.	Acres.	Cubic feet per second.	Acres.	Acres.	Acres.
Eastern Sone	86½	.....	357	401,156	1,913	129,040	180,000	309,040
Arrah	70	71½	467½	618,354	4,342	347,300	380,000	727,300
Buxar	62½	77½	33½	703,000				
Total	218½	148½	1,158½	1,728,500	5,955	476,340	560,000	1,036,340

A length of $4\frac{1}{4}$ miles, from mile 5 to mile $9\frac{1}{4}$, has been transferred from the Arrah to the Buxar Division.

A length of five miles of distributary only was added to the total length of channels in the Eastern Sone Division. At the same time there has been a correction of one and-a-half miles less in the channels of the Arrah Canal, and the net result therefore is an increase of three and-a-half miles to the length of distributary channels.

60. The area irrigable is calculated for kharif at 80 acres per cubic foot of maximum discharge, and for rabi at 180 acres per cubic foot, allowing 3,000 cubic feet per second as the available supply. Of the total area commanded 1,728,500 acres, 1,350,396 are said to be cultivable, so that the areas which can be irrigated in the kharif and rabi, respectively, as shown by the above statement, represent about 35 and 40 per cent. of the culturable area. But, as mentioned in last year's report, the kharif irrigation has never yet reached 250,000 acres (exclusive of sugarcane), and it is doubtful whether it will ever be possible, for reasons then stated, to irrigate eventually more than two-thirds of the estimated kharif area, or whether more than one-fifth of the estimated rabi area will ever require canal water. It is probable, therefore, that 24 and 8 per cent. of the culturable area represent more correctly the areas which can be irrigated in the kharif and rabi respectively.

61. The following table shows the progress made with village channels and outlets:—

VILLAGE CHANNELS.

DIVISION.	Total length of village channels completed.	Total number of temporary and permanent outlets.	Number of permanent outlets.
	Miles.	No.	No.
Eastern Sone Division	245½	1,988	26
Arrah Division	76½	2,126	497
Buxar „	507	1,538	131
Total 1886-87	1 518	5,652	654
Total 1885-86	1,505	5,907	618

Of the total length of 1,518 miles of village channels completed, only 178 miles were constructed by Government agency, and the remaining 1,340 miles by private individuals. The latter figures are merely approximate.

A material reduction has been made in the number of temporary outlets in the Arrah and Eastern Sone Divisions.

62. The statements below furnish the rainfall statistics of the Sone Canal system from the year 1882-83, and the distribution by canal divisions for three years:—

RAINFALL.

		AVERAGE OF 23 STATIONS.				
		1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
		Inches.	Inches.	Inches.	Inches.	Inches.
Kharif season ...	August	11.73	16.60	9.00	4.23	8.77
	September	12.51	10.67	5.41	5.11	5.95
	October	8.33	0.34	3.50	0.73	4.30
	Total	32.57	27.60	18.00	10.07	18.32
Rabi season ...	November	0.23	.....	.....	.....	1.51
	December	0.22	2.45	.....	.....	.....
	January	1.47	0.10	0.55	.....	1.65
	February ... ..	.....	0.11	0.03	.....	0.03
Total		1.92	2.66	0.58	.....	3.19
Whole year		59.31	44.30	30.20	30.18	35.83

YEAR.	EASTERN SONE DIVISION.			ARRAH DIVISION.			BUXAR DIVISION.		
	Kharif season.	Rabi season.	Whole year.	Kharif season.	Rabi season.	Whole year.	Kharif season.	Rabi season.	Whole year.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
1886-87	31.60	1.14	62.34	36.40	1.83	62.30	25.18	1.84	51.00
1885-86	30.25	2.18	40.54	27.02	2.91	44.04	27.81	2.22	42.20
1884-85	17.11	0.40	30.57	18.84	0.54	31.02	20.00	0.60	31.87

The rainfall of the year was exceptionally heavy, the average for 23 stations being 59.34 inches against an average yearly quantity for the whole area commanded by the Sone Canals of 40.89 inches. The Superintending Engineer remarks:—"In 1886-87, for the kharif season and the year the fall was much beyond that observed in the previous year, and also greatly in excess of the average. In the rabi season, compared with 1885-86, there was a falling off, but the rainfall in October 1886, 8.92 inches against 0.45 inches in October 1885, was so plentiful, and there was a further fall in January, that the character of the season for that crop was in reality much more favourable also. In point of fact the rainfall of the year was heavier, and as regards the crops better distributed than in any since 1869-70, when the Sone Canal project was taken in hand."

AREAS LEASED AND
IRRIGATED.

63. In former year's reports the areas assessed with water-rates within the year have been taken — the standpoint from which the irrigation for the year has been discussed. Exception was taken to this in last year's report, and an attempt made to give the areas actually irrigated within last year for the purposes of comparison. In this year's report this plan has been still further matured, and for preceding years the figures have, as far as practicable, been recast on the above lines, and only such figures used, except when it is otherwise specially stated. They will consequently differ in many cases from those given in preceding Revenue Reports.

64. The following statement shows the area leased and irrigated for three years:—

DESCRIPTION.	1886-87.		1885-86.		1884-85.	
	Leased.	Irrigated.	Leased.	Irrigated.	Leased.	Irrigated.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Five-year leases	(a) 194,419	194,556	173,829	179,784	(b) 145,094	161,519
Annual leases—						
Kharif	27,733	30,082	62,107	60,702	98,385	131,372
Rabi	10,639	16,662	31,761	50,610	38,935	77,558
Sugarcane	5,402	11,626	5,186	10,527	4,293	9,262
Hot weather	8,619	15,278	6,117	10,857	738	969
Total annual leases ...	52,393	73,648	105,171	152,786	142,351	219,151
GRAND TOTAL ...	246,812	268,204	279,000	332,570	287,445	370,661
Percentage of leased to irrigated area	92.02		83.89		77.55	

(a) Includes 64 acres leased after 1st April 1887, with effect from the 25th June 1886.

(b) Of the area actually irrigated in 1884-85 in the Arrah Division, and either not leased at all, or leased under annual lease, 8,729 acres were leased under five-year leases in 1885-86, with effect from 1st April 1884.

The Superintending Engineer remarks that a small proportion of the leased area was not irrigated on account of timely rainfall.

The result of the year's operations shows a falling off of 32,191 acres in the area leased from that of the previous year. The area irrigated was less by 64,366 acres, of which more than two-thirds was the deficiency in the Buxar Division. The deficiency is sufficiently accounted for by the abnormal quantity of rain.

FIVE-YEAR
LEASES.

It is satisfactory, however, that in a year of such favourable rainfall the area under five-year leases continued to increase, more especially taking into account that leases for 39,075 acres fell in during the year. New five-year leases, either renewals or fresh leases, were issued for 59,665 acres.

ASSESSMENT.

The area of all crops grown in the year, assessed during the year, deducting that cancelled in khatonies, was 264,744 acres against 246,812 leased. In addition to the above, 30,886 acres, appertaining to the irrigation of 1885-86, were assessed, making a total of 295,630 acres, on which the earnings of the year should be calculated.

The improvement in the proportion of the area irrigated for which leases had been previously granted continues.

Taking into account five-year leases, the following are the irrigated areas by crops compared with those of the previous year:—

	1886-87.	1885-86.	Difference.
	Acres.	Acres.	Acres.
Kharif	177,510	217,072	—39,562
Rabi	45,361	77,079	—31,718
Sugarcane	30,065	27,562	+2,493
Hot weather	15,278	10,857	+4,421
Total	268,204	332,570	—64,366

In dividing the area under five-year leases under kharif, rabi and sugarcane in the Buxar Division, $\frac{1}{2}$ ths of the total area is taken as kharif, $\frac{1}{11}$ ths rabi,

and $\frac{1}{10}$ th sugarcane. For the other divisions, $\frac{8}{10}$ ths is taken as kharif and $\frac{1}{10}$ th each rabi and sugarcane. The Superintending Engineer states that these proportions have been shown to be approximately correct.

The areas actually irrigated in each of the Executive divisions during the last five years are shown below:—

AREAS IRRIGATED.

Year.	EASTERN SONC DIVISION.				ARRAH DIVISION.				BUXAR DIVISION.				TOTAL FOR ALL DIVISIONS.			
	Annual leases.			Total.	Annual leases.			Total.	Annual leases.			Total.	Annual leases.			Total.
	Kharif and mabi.	Sugarcane and hot weather.	Five-year leases.		Kharif and mabi.	Sugarcane and hot weather.	Five-year leases.		Kharif and mabi.	Sugarcane and hot weather.	Five-year leases.					
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	
1882	17,717	3,917	11,130	32,770	36,164	7,976	23,030	37,170	27,932	5,003	10,389	43,924	81,517	17,756	74,556	175,824
83	36,030	160	18,620	54,810	95,501	10,973	26,472	161,934	101,413	4,143	25,330	131,876	245,096	13,254	101,322	350,614
84	40,541	1,328	25,136	72,005	87,000	4,556	82,474	161,519	61,909	4,537	43,841	113,947	208,359	10,221	151,510	370,061
85	40,204	1,041	27,045	68,290	61,000	6,821	93,222	157,021	58,140	13,529	50,007	121,669	130,102	21,084	170,744	332,570
86	11,869	1,516	34,194	47,579	21,710	20,360	98,737	140,747	13,164	5,298	61,625	80,478	46,744	20,004	104,530	204,204

The figures used in the corresponding statement of the previous year's report represent the areas *assessed*; those now given are the areas *actually irrigated*, except for the two years 1882-83 and 1883-84, for which the latter are not available.

65. The proportion of *flow to lift* irrigation was 96·5, to 3·5—the figures for the last three years are—1885-86, 95 to 5; 1884-85, 93 to 7; and 1883-84, 90 to 10.

FLOW AND LIFT.

66. The following statement shows the duty obtaining in the year under review and in the previous one:—

DUTY.

				Eastern Main Canal Series.	Arrah Canal System.	Buxar Canal System.	Western Main Canal Series.	Sone Canals.
1886-87	Kharif	Acres	...	4,858	107,621	59,586	107,207	207,565
		Duty on gross supply	...	56·3	107·1	142·8	114·8	95·5
	Rabi	Acres	...	10,143	35,182	30,791	65,273	5,416
		Duty on gross supply	...	46·7	65·1	148·9	87·9	78·6
1885-86	Kharif	Acres	...	39,532	124,441	80,661	205,102	244,634
		Duty on gross supply	...	45·4	88·7	97·0	93·6	79·9
	Rabi	Acres	...	12,324	44,946	17,371	92,317	104,641
		Duty on gross supply	...	42·6	128·0	116·1	121·7	99·9

The duty for kharif is calculated on the supply entering the canals during the three months, August to October, and that for rabi on the discharge utilised during the four months, November to February. This method was first adopted in the report for the year 1884-85, and has been continued since.

The increased duty in the kharif season is attributed to the plentiful and seasonable rainfall, so much water not being required for rice irrigation as was necessary in the year preceding. The gross average discharge of the canals in the kharif season fell from 3,059 cubic feet per second in 1885-86 to 2,172 cubic feet in 1886-87. The low duty in the Eastern Sone Division is accounted for by the great percolation in some parts of the division owing to the sandy nature of the soil. The Superintending Engineer states that—"The main reason of the lower duty in the rabi season is that only water escaping from canals is excluded in calculating the duty, the whole of that admitted into distributaries being taken into account. The supply in distributaries has to be kept above what is actually necessary for irrigation to admit of the level of the water therein reaching the height necessary for flow irrigation, and the percentage of water wasted is also higher on a smaller area." For the purposes of comparing with other canal systems the duties on discharge utilised must be taken for the kharif, and from Form I. E. these appear to be:—

Eastern Main Canal Series	...	...	...	94·2
Western " " "	...	...	...	190·6
Sone Canals generally	...	...	...	159·0

But it must be remembered that the figures given in connection with the kharif are taken with reference to the three months, August to October, only.

CROP
EXPERIMENTS.

67. Experiments were carried out on crops irrigated by canal water in 263 cases, and in 256 on crops irrigated from other sources. The result is in favour of canal irrigation for the rice crop, the average yield being 17 maunds 3 seers of grain and 31 maunds 14 seers of straw, or 2 maunds 12 seers of grain and 1 maund 1 seer of straw in excess of the yield from other irrigation. In the case of rabi crops, on the other hand, the yield is slightly in favour of irrigation from wells and ahars.

DEMANDS.

68. The following statement shows the demands, collections, and balance of water-rates for five years :—

YEARS.	DEMAND.			Remissions.	Net demand.	Collections.	Balance.	Percent- age of collections to current demand.
	Arrears.	Current.	Total.					
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1882-83	4,36,840	4,62,501	8,99,340	21,020	8,78,320	5,00,405	3,11,055	32.5
1883-84	3,11,463	7,42,311	10,53,774	1,45,874	9,07,900	4,81,990	4,25,910	46.8
1884-85	4,21,703	11,15,890	15,37,593	73,425	14,64,168	7,70,350	6,93,818	47.0
1885-86	6,05,268	8,07,702	14,12,970	1,26,200	12,86,770	9,78,323	3,08,447	76.1
1886-87	3,98,321	6,35,080	10,33,401	35,364	10,58,765	8,26,451	2,32,314	77.9

The figures in the above statement are taken from those compiled by the Examiner of Accounts. The amount of arrears at the commencement and the outstanding balance at the end of the year under review, together with the amount of remissions, agree with the figures given in the statement furnished by the Commissioner and Collectors. The Examiner's figures for current demand and collections are, however, in excess of those given by the above officers. The chief reason of the discrepancies being that miscellaneous assessments and collections made by the Collector of Shahabad are omitted by the latter. Minor discrepancies exist also, which render a complete comparison of the statements given by different officers impracticable, though the Superintending Engineer explains them as far as is possible. The Examiner's figures have been adopted in the following paragraphs, except where otherwise stated.

COLLECTIONS.

69. All arrears for years previous to 1880-81 were cleared off in 1885-86, and the opening balance of 1886-87 included therefore only outstandings from 1880-81 up to the end of 1885-86, which amounted to Rs. 3,98,321. According to Collector's statements further demands for previous years, amounting to Rs. 68,609, were made during 1886-87, bringing up the total for recovery on account of irrigation effected in previous years to Rs. 4,66,930. Of this amount Rs. 3,46,381 was collected, and Rs. 33,708 remitted and written off as irrecoverable, leaving the balance of Rs. 86,391 outstanding at the end of 1886-87 on account of previous years against a balance of Rs. 1,55,000 as shown in round numbers in arrears in the previous year's report.

Assessments for irrigation of 1886-87 were made according to Collectors' returns to the amount of Rs. 6,21,156, of which Rs. 4,74,332 was collected and Rs. 1,657 remitted, leaving a balance for collection of Rs. 1,45,168.

The outstanding balance at the end of the year was thus Rs. 2,31,559 according to Collectors' statements against Rs. 2,31,582 as reported by Examiner. Of the above sum, Rs. 43,645 on account of assessment for rabi irrigation, though due, was not legally payable till after the close of the year.

ARREARS.

70. The outstandings at the end of 1886-87 are compared below with those of the previous year :—

	1886-87.	1885-86.
	Rs.	Rs.
Arrears of previous years ...	86,391	1,55,000
Arrears of year payable within the year ...	1,01,523	1,31,000
Total legally due ...	1,87,914	2,86,000
Arrears of year due but not payable ...	43,645	1,12,000
Total ...	2,31,559	3,98,000

The following statement gives a comparison by districts of the result as shown in the previous paragraph of the operations of the year:—

DISTRICTS.	ARREARS DUE FOR IRRIGATION EFFECTED IN PREVIOUS YEARS.				DEMANDS FOR IRRIGATION EFFECTED IN YEAR.			
	PERCENTAGE OF TOTAL DEMANDS.				PERCENTAGE OF TOTAL DEMANDS.			
	Demand.	Collections.	Remissions.	Outstanding at end of year.	Demand.	Collections.	Remissions.	Outstanding at end of year.
Shahabad—								
1886-87	100.0	77.3	8.8	13.9	100.0	83.4	0.20	16.34
1885-86	100.0	64.8	15.3	19.9	100.0	72.3	0.3	27.4
Patna—								
1886-87	100.0	47.0	1.5	51.5	100.0	33.0	0.04	66.96
1885-86	100.0	53.1	11.3	35.6	100.0	31.4	0.2	68.4
Gya—								
1886-87	100.0	88.4	3.0	8.6	100.0	40.4	6.47	53.13
1885-86	100.0	67.8	27.2	5.0	100.0	37.1	1.5	61.4
Average—								
1886-87	100.0	74.3	7.2	18.5	100.0	76.35	0.25	23.4
1885-86	100.0	65.7	16.0	20.3	100.0	66.5	0.4	33.1

The result of the year's operations shows a very decided improvement in the collections both of arrears and of the current demand in all districts, except in Patna in the case of arrears. Taking the total demand under both heads, the Commissioner writes:—"In Shahabad more than three-fourths, and in Gya more than half of the total demand was adjusted during the year under report, while the adjustment in Patna was less than half of the total demand—a result which is far from satisfactory. In Patna the bad collections of the year under report were, among other causes, mostly due to the apathy and incompetence of the former circle officer, whose services were dispensed with in March last. It is hoped that future reports will show better results. The balances at the close of the year have been largely reduced in all districts, specially in Shahabad as compared with the balances with which the year opened."

The system of collection introduced during the previous year worked well, and on this point the Collector of Shahabad remarks:—"In the beginning I feared that the enforcement of payment of rates in full according to each receipt might retard collections, but happily my apprehensions have proved groundless." The most favourable results have again been obtained in the Shahabad district, where by far the greater portion of the work is carried out, the total demand for the year in that district being Rs. 8,70,871 against Rs. 2,17,213 for Patna and Gya combined.

The collections in all districts aggregated Rs. 8,26,461 against Rs. 9,78,323 in the previous year. The decrease is attributable to the seasonable nature of the rainfall, which was unfavourable to leasing, and also to the great reduction in arrears effected in the two previous years.

71. The remissions for the year amounted to comparatively a very small sum, the total amount remitted being—

					Rs.
By canal officers	...	...	...	...	13,279
— civil ..	...	...	...	...	22,085
					<hr/>
Total	...	...	...	...	35,364
					<hr/>

against Rs. 1,26,266 remitted in 1885-86. These figures are not, however, strictly comparable as explained below. Rupees 22,083 remitted by civil officers (Rs. 20,808 in the Shahabad district) is the amount of arrears written off as irrecoverable against Rs. 40,486 in 1885-86. The decrease is chiefly on

account of the large adjustments of arrears made in the previous two years. As

* Of these Rs. 6,000 were replaced by fresh khationies in the following amount:—

Rs. 545	Owing to five-year leases being granted.
.. 5,546	Owing to an assessment in a five-year lease extending over four years having been revised and replaced by a new demand statement for Rs. 5,144.
.. 6,000	

regards remissions by canal officers the amount of Rs. 13,279, which appears in the accounts of the Examiner and Collection Department, does not take into account the sum of cancelled khationies, Rs. 85,780, which the corresponding figures for the previous year included. In the statement given by the Superintending Engineer the remissions plus the refunds are shown as Rs. 21,055; in addition to which khationies for the amount of Rs. 13,585* were cancelled, making a total of Rs. 34,640 against

Rs. 87,344 in 1885-86 and Rs. 53,966 in 1884-85.

The remissions by canal officers may be divided thus—

	Percentage of remission and refunds to gross demand.	
	1884-85.	1885-86.
Eastern Sone Division	0.68	11.8
Arrah Division	2.43	7.2
Buxar	1.96	0.8

The result is very favourable, the proportion of remissions and refunds being insignificant.

REVENUE ESTABLISHMENTS.

72. The expenditure on the revenue establishments employed is shown below:—

	1886-87.		1885-86.	
	Amount.	Percentage on collections.	Amount.	Percentage on collections.
	Rs.		Rs.	
Permanent and temporary establishments, such as zilladars, ameenas, &c.	53,914	6.52	56,110	5.73
Establishment employed under Collectors...	28,028	3.39	29,573	3.02
Headmen's and putwaries' fees	61,718	7.47	60,345	6.17
Total	1,43,660	17.38	1,46,028	14.92

The charges for establishment during the year 1886-87, as compared with the previous year, show a reduction of Rs. 2,368. The actual realisations of the year were, however, less than those of the previous year by Rs. 1,51,862. Notwithstanding the large reduction in the amount of collections, there is a small increase in the amount paid on account of headmen's and putwaries' fees, and this appears to demand explanation.

The following statement shows the cost of the establishment employed on assessments during the year. The areas assessed, as shown in the statement, are the gross areas assessed in the year less the areas under five-year leases in force at the beginning of the year:—

DIVISION.	Areas measured and assessed.	COST OF MEASURING CROP.		COST OF PREPARING DEMAND STATEMENTS.	
		Total.	Per acre.	Total.	Per acre.
	Acres.	Rs.	Pies.	Rs.	Pies.
Eastern Sone	25,780	1,397	0.65	634	4.72
Arrah	81,160	4,323	11.64	3,675	14.37
Buxar	26,041	1,741	12.83	745	5.49
Total 1886-87	132,980	7,961	11.49	4,954	7.15
Total 1885-86	159,294	7,869	9.48	5,944	7.16

The foregoing figures are approximate only, as the whole establishment was never exclusively employed on any special crop. Charges for one year's crop are disbursed in another, and there are other disturbing causes. The charge

per acre for measuring crop has again increased, it having been 5.91 pies per acre in 1884-85 on an average assessed of 255,255 acres. This appears to be due to the actual expenditure being, more or less, mainly either fixed or fluctuating with the total area, so that the charge per acre is almost entirely dependent on the area leased during the year, and varying inversely with it.

73. As regards the attendance of putwaries at measurements, the Superintending Engineer observes:—"Generally speaking there has been but little improvement, and in some cases the reverse in the percentage of measurements attended by putwaries. It is not easy to give a satisfactory explanation of the falling off, but it is probably partially due to the non-payment of fees in the case of five-year leases. The putwaries invariably receive notice of measurement, but their attendance is voluntary, and there are understood to be reasons against making it compulsory by legislation."

PUTWARIES.

74. The number of complaints pending at the beginning of the year and received during the year was 6,021, of which 5,420 were disposed of within the year. The corresponding number of complaints in 1885-86 were 13,589, so that the assessments would appear to have given rise to less objections than before. Four hundred and three miscellaneous petitions were received, of which 386 were disposed of. Thirteen cases were tried by Engineers vested with magisterial powers.

COMPLAINTS.

75. There is nothing to show how many of the above complaints were in connection with unauthorised or surreptitious irrigation, the remissions even not having been classified by the Superintending Engineer as was done last year. But undoubtedly some were under this head; and it is probable that, with the whole number so largely diminished, there was a decrease under this particular head also, and that this source of irritation, to which the late agitation was in some degree due, was the cause of less friction than formerly. In future detailed information regarding complaints, as has already been pointed out in the case of the Orissa and Midnapore Canals (paragraphs 18 and 41), ought to be given by the officers concerned in their reports.

UNAUTHORISED
IRRIGATION.

76. There was an increase in the number of certificates filed in the Patna district, 2,512, against 1,794 during the previous year. Of these 1,176 were enforced, realising Rs. 3,334-4. In Gaya no certificates were filed. In Shahabad 8,826 cases were instituted against 14,145 for the previous year. There were also 8,089 cases pending from the previous year. Of these 10,223 were disposed of, realising Rs. 47,786, or 5.7 per cent. of the total collections. Six thousand six hundred and ninety-two cases remained pending at the close of the year. On this subject the Commissioner remarks:—

CERTIFICATE PRO-
CEDURE.

"The number of institutions has diminished considerably. They were generally on account of arrears of old standing which were suffered to accrue under the old system, and which it was found impossible to realise without coercive measures. The number, however, bears a very small proportion to the total number of rate-payers. The old arrears having now been nearly cleared off, there will be less necessity for recourse to coercive measures in future."

77. The Collector of Shahabad in his report remarks on the defects existing in the present system of assessments, preparation of khationies and disposal of complaints, giving an opinion that matters may be improved by the extension of the long-lease system. His remarks are worthy of consideration, but as in consequence of the numerous complaints that have been received, a Commission has been appointed by the Lieutenant-Governor to enquire into the whole question of the working of the system in vogue on the Sonu canals, His Honour being of opinion that the matter could not successfully be disposed of otherwise, and the investigations of the Commission are now being carried on, there is every reason to hope that the searching enquiry instituted will result in recommendations which, followed by a revision, if necessary, of the Act and the rules in force under the Act, will enable matters to be settled by the assessing and collecting officers with a much less degree of friction than is at present experienced. It may be observed, however, here that the stringent measures recently introduced to enforce payments of rates has placed matters on a considerably better footing, and that any procedure, which has for its object the early filing of complaints, the dealing with them quickly and finally (so far, at any rate, as the mere fact of irrigation or non-irrigation is concerned) and the prompt realisation of the demands certified as correct, will, in

GENERAL RE-
MARKS.

the end, tend to make the cultivator appreciate both the benefits of irrigation and his own responsibilities in connection with it and enable the Government to collect its just dues.

NAVIGATION.

78. The tables below show the navigation revenue and tollage receipts for the last five years:—

NAVIGATION RECEIPTS.

Year.	EASTERN MAIN SERIES.			WESTERN MAIN SERIES.			Total.	Tollage only.
	Number of miles open.	Tollage receipts.	Transport service receipts.	Number of miles open.	Tollage receipts.	Transport service receipts.		
	No.	Rs.	Rs.	No.	Rs.	Rs.	Rs.	Rs.
1882-83	60½	22,070	12,184	132½	10,020	20,706	71,205	20,304
1883-84	61½	22,503	9,305	131½	22,400	30,856	43,103	40,532
1884-85	64½	23,020	1,804	132½	14,200	13,122	41,761	37,000
1885-86	60½	19,570	—	132½	22,133	4,531	40,243	41,712
1886-87	60½	23,500	54*	132½	27,150	6,532*	50,204	49,936

* These receipts are not on account of transport service, but for hire of steamers, flies and sundries.

TOLLAGE (ASSESSED).

Year.	Patna Canal system— Eastern Main Canal Series.			Arrah Canal system.	Buxar Canal system.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1882-83	22,772	18,830	2,454	30,062		
1883-84	22,206	10,791	5,593	47,590		
1884-85	23,142	10,316	8,937	37,395		
1885-86	19,523	14,808	7,386	41,719		
1886-87	22,646	18,289	9,001	49,936		

NOTE.—The figures in these two statements do not agree, the reason being that the first statement is prepared from the Engineer's returns, while the second has to be based on returns obtained from the Superintending Engineer, and there are some unadjustable discrepancies between them.

A fair increase in the traffic is apparent on all canals.

TRAFFIC.

79. The following statement compares the traffic of the year 1886-87 with that of the four preceding years:—

	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
Number of miles open at the end of the year ... Miles	218½	218½	218½	216½	218½
Toll collections ... Rs.	40,065	41,712	37,335	49,032	39,304
Rate of toll per mile ... "	227	190	170	217	180
Boats, including empties ... No.	8,573	7,210	6,434	8,822	7,618
Measured tonnage of boats ... Tons	104,835	77,000	61,744	95,472	78,951
Estimated value of cargo ... Rs.	64,65,661	36,41,863	41,10,508	52,54,476	37,96,467

The increased value of goods carried is partly owing to the greater traffic and partly to specie carried for opium payments. The principal items of traffic are grain, oilseeds and timber, the down traffic being by far heavier than the up traffic. The most noticeable items on which there was an increase were grain, salt, building materials and miscellaneous. The cost of establishment employed on the collection of tolls and on locks was, according to Superintending Engineer, Rs. 13,379 against Rs. 13,644 in 1885-86. The charge is high, notwithstanding that the number of toll stations have been reduced, and is due to the great length of the canals and the small traffic.

TRANSPORT SERVICE.

80. There is a weekly steamer service maintained on the Patna canal, and a service twice a week on the Arrah and Buxar canals. These are in the hands of a contractor to whom three Government steamers are rented.

MILLS.

81. There are eight mills on the different canals, including a turbine on the Arrah canal at Nasrigunge. Three only of the small mills have afforded some return during the year. The total receipts under this head were Rs. 889

against an expenditure of Rs. 909. The excess expenditure is due chiefly to repairs to the turbine.

82. The miscellaneous receipts for the last five years are given in the following table:—

MISCELLANEOUS

	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
	Rs.	Rs.	Rs.	Rs.	Rs.
Sale of water	703	1,742	5-2	399	630
Plantations	319	307	178	107	38
Other canal produce	2,901	2,424	1,339	2,047	2,602
Water powers	608	469	488	857	77
Rent of buildings	7,198	7,218	6,109	6,305	6,180
Fines	169	653	734	778	761
MISCELLANEOUS. { Rent of lands	15,231	14,369	13,770	13,322	11,504
Fisheries	563	421	532	359	553
Cost of process	6,302	6,414	7,066	4,218	3,251
Sale of old materials	443	355	405	55	422
Other items	3,213	3,713	8,051	8,967	20,867
Total	37,714	38,080	40,364	34,003	47,007

The falling off under "sale of water," the only item calling for remark, was due to a large payment being made in 1885-86 by the East Indian Railway Company on account of arrears of previous years for water supplied to the Dinapore Railway station.

83. PLANTATIONS.—The state of the plantations in each division at the close of the years 1885-86 and 1886-87 is shown in the statement following:—

DIVISION.	1886-87.				1885-86.				Increase.	Decrease.
	Trees over 12 feet in height.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.	Trees over 12 feet in height.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.		
	No.	No.	No.	No.	No.	No.	No.	No.		
Eastern Sone Division	48,030	45,620	46,741	139,797	52,309	46,911	54,537	153,807	140	Nil.
Arrah Division	28,702	11,620	52,103	92,427	35,448	10,197	57,153	73,798	19,722	Nil.
Buxar	9,890	5,136	12,263	27,318	2,414	2,331	6,600	22,424	4,893	Nil.
Total	100,802	62,376	111,107	280,572	90,171	59,439	117,290	266,907	23,665	Nil.

The receipts for the year amount to Rs. 319 against Rs. 307 credited in the year previous. The expenditure was wholly charged to Revenue, and was as follows:—

	Rs.
Eastern Sone Division	675
Arrah Division	2,849
Buxar	1,665
Total	5,189

In the Arrah Division selected portions of the spoil banks were sown with babool seeds in the muns of 1886 and further extensions are now in hand. In all the divisions progress was made in planting out teak, simsoo, toon, and other valuable trees.

The figures given in paragraph 123 of last year's report were incorrect, those for wrong year's having been given. The correct figures should be as follows:—

	Rs.		Rs.
For 89,346 seed	58,089		
" 47,007 "	40,354		
" 14 per cent. "	80 per cent.		

FINANCIAL
RESULTS.

84. The receipts on revenue account and working expenses (direct charges) of the Sone canals for the year 1886-87 and the four preceding years are shown in the statement below:—

	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts—					
Water-rates ...	8,26,461	9,78,323	7,70,359	4,84,209	5,68,485
Navigation ...	54,254	46,243	51,761	85,193	71,265
Miscellaneous ...	37,714	38,080	40,354	34,405	47,007
Total ...	9,18,429	10,62,646	8,62,474	6,03,807	6,86,757
Working expenses—					
Maintenance ...	4,07,529	3,90,929	4,50,313	3,74,795	4,02,841
Irrigation establishment ...	1,43,000	1,46,028	1,29,308	1,14,005	1,06,883
Navigation ditto ...	14,535	14,758	16,846	20,248	19,880
Refunds of revenue ...	16,737	10,657	7,436	5,429	1,237
Total ...	5,81,461	5,52,370	6,03,961	5,14,477	5,29,841
Net profit, exclusive of indirect charges ...	3,36,968	5,10,276	2,58,513	89,330	1,56,886

The decrease in the net revenue is due to the falling off in water-rates and increase in expenditure owing to heavy repairs to the weir.

REPAIRS TO HEAD
WORKS.

85. The cost of repairs to head works was as follows:—

	1886-87.	1885-86.	1884-85.
	Rs.	Rs.	Rs.
Sone weir ...	68,570	34,908	29,922
Other works ...	10,419	7,697	9,462
Total ...	78,989	42,605	39,384

The increased expenditure on the head works is almost entirely due to the rebuilding of the Baroon and centre river sluice piers.

MAINTENANCE.

86. The following statement prepared from the Superintending Engineer's returns shows the expenditure on canals and distributaries in the different executive divisions compared with that of the previous year:—

	Arrah Division.		Buxar Division.		Eastern Sone Division.	
	1886-87.	1885-86.	1886-87.	1885-86.	1886-87.	1885-86.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Western Main canal ...	20,029	64,288	9,054	4,248	10,107	20,497
Eastern ditto ...	20,796	25,368	14,464	9,404	24,900	21,198
Canal ...	11,798	18,032	72,403	9,212	...	...
Branch canals ...	26,385	31,850	17,778	18,444	15,479	18,698
Distributaries ...	1,092	670	1,090	810	2,130	2,165
Drainage and protective works ...	...	...	...	...	...	...
Total ...	1,05,885	1,32,018	100,180	36,008	58,266	65,622

The total cost of maintenance of canals in all divisions, exclusive of head-works and telegraph and telephone lines, was Rs. 2,24,290 against Rs. 2,34,784 for the year 1885-86. The figures do not quite agree with those given by the Examiner, but the discrepancy is small. The decrease of the cost in the Main Western canal is due to smaller expenditure on silt clearance owing to the lower average discharge of the canal during the flood months—1,461 cubic feet against 2,203 in 1885-86. This reason is also assigned for the lower expenditure in the Eastern Main canal. The increased expenditure in the Buxar Division is chiefly due to the postponement of as much as possible of the work in the previous year owing to want of funds. The average expenditure for the two years is slightly less than that actually incurred in 1884-85.

The expenditure per mile incurred on repairs to the canals and distributaries during the year 1886-87 and the two previous years is shown in the following statement:—

CANAL.	Division.	1886-87.		1885-86.		1884-85.	
		Number of miles.	Cost per mile.	Number of miles.	Cost per mile.	Number of miles.	Cost per mile.
		No.	Rs.	No.	Rs.	No.	Rs.
Eastern Main canal	Eastern Sone	71	2,215	71	4,071	71	3,019
Western ditto	Arrah	5	7,985	5	12,457*	5	11,438*
Buxar canal	Buxar	16½	546	16½	366*	16½	2,319*
Patna do.	Do.	45½	406	45½	298	45½	497
Arrah do.	Eastern Sone	79	395	79	268	79	269
Donnour Branch	Arrah	65	455	65	359	65	624
Jeha do.	Do.	40½	172	40½	179	40½	332
Chowah do.	Do.	31	182	31	189	31	223
Guria Chowbey Branch	Buxar	39½	290	39½	168	39½	143
	Do.	38	131	38	78	38	155
	Arrah	467½	54	469	66	469½	68
Distributaries	Buxar	31½	65	31½	40	31½	46
	Eastern Sone	357	46	352	59	345	42

* The expenditure on the Western Main canal from miles 6 to 9 for the years 1884-85 and 1885-86 has been deducted from the Arrah Division, and added to the Buxar Division to which the miles have been transferred.

87. The quantity of silt removed by dredgers in the Eastern Main canal was 1,864,643 cubic feet at a cost Rs. 6,955, or Rs. 3-11-8 per 1,000 cubic feet, which does not include the cost of removal of the silt from the towpath. Of the silt dredged 1,325,757 cubic feet were deposited on the bank and 538,886 discharged into the river. The average rate in the previous year was Rs. 4-4-8 per 1,000 cubic feet. The low rate in the present year is chiefly due to the dredging having been confined to places where the silt deposit was heavy, and consequently full loads were always brought up by the buckets. The total quantity of silt dredged in the river was 3,100,682 cubic feet, the rate being Rs. 1-15-6 per 1,000 cubic feet, and in the Main Western canal 4,176,601 cubic feet at a rate of Rs. 3-8-11 for silt delivered in punts at the side of the canals. Inclusive of the cost of removing the silt, the rates were respectively in the river and canal Rs. 2-14-1 and Rs. 7-6-6. A large quantity of silt removed from the canal had to be carried over the spoil bank at a cost of Rs. 6 per 1,000 cubic feet. The Superintending Engineer remarks—“It is not possible, on the information available, to give, on the year's working the cost of silt clearance by the different classes of dredgers employed. This can best be determined by experiments extending over a limited time, which will be carried out.”

DREDGING

Besides silt clearance by dredging a quantity of 1,105,522 was removed by hand from the Eastern Main canal at a rate of Rs. 4-5-4 for 1,000 cubic feet. In the Main Western canal a trifling amount only was thus removed at a total cost of Rs. 1,065. On the Arrah canal Rs. 1,370 was expended in dredging, and on silt clearance by hand Rs. 1,625. On the Buxar canal Rs. 51 was expended on silt clearance by hand.

88. The following statement shows the cost of weed-clearing during the year 1886-87 and the four preceding years:—

WEED-CLEARING

	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
	Rs.	Rs.	Rs.	Rs.	Rs.
Eastern Sone Division	314	2,115	1,589	2,777	7,721
Arrah Division	2,218	2,191	3,976	5,918	6,627
Buxar do.	2,165	77	.....	270	29
Total	4,697	4,383	5,565	8,965	14,377

Of the total expenditure of Rs. 4,597, the cost of working the steam weed-rake was Rs. 1,719, and the balance of Rs. 2,878 was expended in clearing by hand. The weeds in the Buxar canal were found to be specially troublesome, and for the first time during the last five years, it was necessary to spend a large sum in removing them. In the Eastern Main canal the expenditure was less than usual.

CLOSURES.

89. The Main Eastern series of canals were closed for silt clearance from the 1st May to the 18th of June 1886, and the Main Western series from the 1st to the 10th of April.

FLOODS.

90. There was no high flood in the river Sone during the year. Owing to the heavy local rainfall there were high floods in all the minor streams. The Poonpoo river was in very high flood on the 8th and 9th of October 1886. The highest flood on record occurred in the Kao on the 7th October. The level of the water at the syphon aqueduct on the up stream side was R. L. 331.00, or one foot below that of the masonry towpath, and on the down stream side R. L. 328.00.

CALCUTTA AND EASTERN CANALS.

DESCRIPTION.

91. A DESCRIPTION of these canals was given in the Revenue Report for 1885-86. No works have since been added, and the length of the different channels remains the same.

The revenue administration of the canals formerly vested in the Board of Revenue, passed into the hands of the Public Works Department on the 1st April 1886, and the Revenue Report has been submitted by the Superintending Engineer. The management of the Calcutta canals and Tolly's nullah is at present in the hands of the Collector and Supervisor under the immediate orders of the Superintending Engineer. The charge of the works and of the Eastern canals and steamer route is in the hands of the Executive Engineer.

92. The capital and revenue accounts of the Calcutta and Eastern canals are given below:—

I.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1886-87.	Outlay to end of 1886-87.
DIRECT CHARGES.	Rs.	Rs.
Old outlay prior to the year 1861-62	.....	(a) 24,91,012
I.—Works	4,200	19,87,258
II.—Establishment	980	3,70,869
III.—Tools and plant	(—) 807	3,43,106
IV.—Profit and loss	.....	847
V.—Suspense accounts	723	12,684
Total	5,156	52,05,776
Less—Receipts on capital account	.....	41,553
Net Total	5,156	51,64,223
INDIRECT CHARGES.		
Leave and pension allowances	137	59,051
Total	137	59,051

(a) Approximate expenditure prior to the year 1861-62 as supplied by the Board of Revenue, Lower Provinces.

2.—REVENUE ACCOUNT (ACTUALS).

	EXPENDITURE.			RECEIPTS.	
	During 1886-87.	To end of 1886-87.		During 1886-87.	To end of 1886-87.
	Rs.	Rs.		Rs.	Rs.
Old outlay prior to the year 1861-62	.....	(a)13,63,615	Old revenue	.....	80,17,101
Works (extensions and improvements)	5,002	8,04,966	Navigation	4,77,199	(b)1,06,71,942
Maintenance and repairs...	1,02,480	27,04,286	Miscellaneous	6,455	(b)1,06,308
Establishment	66,969	20,12,347			
Tools and plant	8,347	43,566			
Total	1,82,888	70,18,780			
Profit	3,00,766	1,20,76,571			
Total	4,83,654	1,90,95,351	Total	4,83,654	1,90,95,351

NOTE.—(a) Approximate expenditure prior to the year 1861-62 as supplied by the Board of Revenue, Lower Provinces.
 (b) It was mentioned in the foot-note to this statement in last year's Report that the figures are not quite accurate, certain receipts under "Navigation" having been shown as "miscellaneous revenue;" the error has now been corrected by the transfer of Rs. 22,601 from the latter to the former head.

The above statement is exclusive of indirect charges.

There is no interest account, the whole expenditure having been defrayed from Provincial funds.

93. The following statement shows the financial results of these canals for the last ten years. The figures are for direct charges only. The average net revenue has exceeded five and a half per cent. on the capital expenditure:—

FINANCIAL RESULTS.

YEAR.	DIRECT CAPITAL CHARGES.		DIRECT RECEIPTS AND OUTLAY.			Percentage of net direct revenue to direct capital expenditure to end of year.
	During the year.	To end of the year.	Gross revenue.	Direct charges.	Net revenue.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1877-78	14,143	31,08,162	4,41,308	1,84,599	2,56,669	87
1878-79	1,35,727	34,04,298	4,01,535	1,79,264	2,22,271	69
1879-80	2,54,181	35,00,470	3,44,695	1,98,778	1,45,787	43
1880-81	6,14,405	41,74,095	4,14,146	2,15,601	1,98,544	47
1881-82	5,80,123	47,25,088	4,82,167	3,27,284	1,55,213	32
1882-83	3,15,650	50,40,147	5,64,194	3,20,205	2,43,929	43
1883-84	1,52,397	51,02,444	5,64,101	2,20,623	3,43,477	66
1884-85	9,197	62,01,641	(a)5,09,720	2,74,192	2,35,528	39
1885-86	(-), 42	61,89,067	(b)4,79,484	1,86,747	2,92,737	47
1886-87	5,156	51,64,223	4,83,854	1,92,888	2,90,966	58

(a) Is Rs. 33,185 larger than it should be by reason of error of account.
 (b) Is Rs. 33,185 smaller than it should be by reason of error of account.

The gross revenue of the year is not directly comparable with that of the two previous years for reasons given in the previous year's Revenue Report. The correct figures are Rs. 4,83,654 against Rs. 5,14,669 for the previous year and Rs. 5,34,541 for 1884-85. The net revenue corresponding is Rs. 3,00,766 against Rs. 3,27,920 for 1885-86 and Rs. 2,58,349 for 1884-85.

COLLECTIONS.

94. The following statement shows the details of the revenue collections:—

CANALS.	Number of boats.	RECEIPTS BY SUPERVISOR.							RECEIPTS BY THE EXECUTIVE ENGINEER.				GRAND TOTAL, GROSS REVENUE.
		Boat route.						Steamer route.	Total collections by Supervisor.	Rents of buildings and lands.	Miscellaneous.	Total.	
		Toll collection on boats.	Demurrage on boats.	Total.	Rents of ferries, lands, buildings and fisheries.	Miscellaneous.	Total.						
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Calcutta and Eastern canals	75,720	3,58,731	702	3,59,433	5,452	693	3,65,689	4,365	3,69,855	2,606	.....	2,606	3,72,589
Tolly's nullah	70,448	1,09,351	46	1,09,397	941	776	1,11,113	.....	1,11,113	.....	.....	.....	1,11,113
Total 1896-97	145,768	4,68,082	748	4,68,830	6,393	1,469	4,74,083	4,365	4,81,018	2,606	.....	2,606	4,83,036
Total 1894-95	147,659	4,87,553	4,601	4,92,154	15,715	540	5,08,474	5,365	5,13,839	647	(-) 35,002	(-) 34,853	4,79,496

The gross revenue, as explained in the preceding paragraph, is Rs. 4,83,654 against Rs. 5,14,669 for the previous year. The decrease is attributable to—

- (1) Abolition of return trip tolls.
- (2) Transfer of canal lands to the Civil Department.
- (3) Abolition of demurrage on dinghies.
- (4) At the Dhappa toll station, dulness of jute and rice trade.
- (5) At the Chitpore toll station, falling off in salt and coal.

BOATS.

95. The following statement shows the number of the different classes of boats entering the canals:—

	NUMBER OF BOATS OF THE FOLLOWING MEASUREMENT BY CANAL RULES.					
	Up to 100 maunds.	Between 100 and 1,000 maunds.	Between 1,000 and 2,500 maunds.	Between 2,500 and 5,000 maunds.	Over 5,000 maunds.	Total.
Circular and Eastern canals ...	31,762	24,748	17,419	1,751	49	75,730
Tolly's nullah ...	17,427	19,931	5,949	54	.....	43,361
Boats not classed, but being mostly small boats of less than 100 maunds paying toll at Huseah ...	.....	.....	.....	.....	.....	59,347
Total 1895-97 ...	49,189	44,679	23,368	1,805	49	146,790
Total 1894-95 ...	47,616	44,457	22,553	1,715	31	147,669

* Includes 39,457 not classed.

There is a small increase apparent in the number of boats between 2,500 and 5,000 maunds and over that measurement, and also in the number of those up to 100 maunds over the figures of the previous year, but the total number is very steady.

TRAFFIC.

96. The following statement shows the traffic in the Calcutta and Eastern canals during the year under review and the two previous years:—

	Number of boats.	Tonnage of boats by canal measurement.	Weight of cargo carried.	Value of cargo carried.	Tollage, including demurrage.	Percentage of toll on value of cargo.
	No.	Tons.	Tons.	Rs.	Rs.	
1895-97 { Calcutta canals ...	75,720	1,704,992	645,280	4,10,81,723	8,63,798	.....
{ Tolly's nullah ...	70,448	918,460	215,064	1,30,80,947	1,09,825	.....
Total ...	145,768	2,623,452	860,344	5,40,62,670	9,73,623	.....
1894-95 { Calcutta canals ...	74,715	1,519,740	676,040	4,78,89,002	3,83,167	.....
{ Tolly's nullah ...	73,944	954,633	29,067	1,39,64,800	1,09,156	.....
Total ...	147,659	2,474,373	1,063,145	6,08,53,802	4,92,323	.....
1894-95 { Calcutta canals ...	68,639	1,410,651	719,623	4,63,12,894	.....	.....
{ Tolly's nullah ...	78,999	939,371	415,147	1,47,67,445	.....	.....
Total ...	147,638	2,350,022	1,134,770	6,10,80,339	5,13,171	.....

The decrease in tollage is entirely in the Calcutta canals, and is attributable to reasons mentioned before. The number of boats, however, shows an increase, the reason of which is that in the previous year all boats plying outside locks used to take monthly tickets; but under new rules dating from

1st April 1886, such tickets are only given for small boats carrying perishable articles to the soorahs or small channels in connection with the canals. The number of monthly tickets issued was 1,090 against 1,300 in the previous year. The decrease in tollage is further accounted for by the general depression in the rice and jute trade, and in the amount of coal and salt carried, considerable quantities of these commodities now being forwarded by rail and up-country steamers.

97. The collections on account of steamers and flats using the Sunderbund route were Rs. 4,365 against Rs. 5,365 in the previous year, the number of vessels being 873 against 1,073. This decrease was due to the vessels of the Bengal Central Flotilla Company having been bought up by the India General Steam Navigation Company.

COLLECTIONS ON
STEAMERS AND
FLATS.

98. The number of missing tickets was still further reduced during the year under review, being 542 against 653 of the previous year, pointing to an improvement in the administration.

MISSING TICKETS.

99. The table below compares the entire cost of the revenue establishment under the Collector and Supervisor with the gross collections made by him:—

	Gross collections made by Supervisor.	Cost of entire revenue establishment.	Percentage.
	Rs.	Rs.	
1886-87	4,81,048	42,714	8.84
1885-86	5,13,839	41,751	8.70
1884-85	5,33,694	47,280	8.85

An increase is apparent in the percentage of charge, which is due to a decrease in the traffic. The cost per boat measured shows a slight decrease, being 4.69 annas per boat against nearly 4.87 annas in the previous year, which is satisfactory. The cost of the establishment includes the pay and commission of the Collector and Supervisor.

100. The total expenditure under this head was Rs. 1,07,572, of which Rs. 5,092 was expended on "extensions and improvements" in the erection of girder bridges at Gurriah and Tolleygunge, and Rs. 1,02,480 was expended on actual repairs against Rs. 67,942 in the previous year.

MAINTENANCE.

Only such repairs as were indispensably necessary were carried out.

101. A small quantity of dredging was carried out chiefly in removing a shoal which had formed below the Dhappa lock. About 311,500 cubic feet of silt was excavated at a cost of Rs. 3,259, or at a rate including disposal of the silt of Rs. 10.48 per 1,000 cubic feet.

DREDGING.

ORISSA COAST CANAL.

102. The following statements show the capital and revenue accounts of this canal:—

I—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1886-87.	Outlay to end of 1886-87.
DIRECT CHARGES.	Rs.	Rs.
I.—Works	2,43,699	29,10,742
II.—Establishment	56,051	6,42,273
III.—Tools and plant	8,800	1,36,927
IV.—Suspense accounts	(—)10,657	47,082
Total	2,97,893	37,37,024
V.—Receipts on capital account	679	2,864
Net total	2,97,214	37,34,160
INDIRECT CHARGES.		
Capitalised statement of land revenue	7,847	730
Leave and pension allowance	7,847	69,833
Total indirect charges	7,847	90,563

The expenditure under capital account has been entirely from Provincial Funds with the exception of Rs. 8,66,000 contributed from Imperial Protective Funds, of which Rs. 84,000 was received during the year. There is no interest account. The total expenditure has exceeded the estimate and a revised estimate will very shortly be submitted.

II.—REVENUE ACCOUNT (ACTUALS).

	EXPENDITURE.			RECEIPTS.	
	During 1886-87.	To end of 1886-87.		During 1886-87.	To end of 1886-87.
	Rs.	Rs.		Rs.	Rs.
<i>I.—Maintenance and Repairs.</i>					
Maintenance and repairs	43,969	67,124	Navigation ...	28,587	42,256
Establishment, including direction and accounts.	10,120	15,446	Miscellaneous ...	901	956
Tools and plant ...	3,432	4,223			
Total ...	57,521	86,793	Total receipts...	29,488	43,206
<i>II.—Revenue management.</i>					
Navigation establishment.	2,183	2,792	Deficit ...	30,216	46,379
Total working expenses	59,704	89,585	Total ...	59,704	89,585

The revenue account of this canal was opened in 1885-86 when Range III, a length of 36 miles, was opened for traffic. The revenue collections were then Rs. 13,718, and maintenance and establishment charges amounted to Rs. 29,881 (the maintenance charges being enhanced by Rs. 20,088 on account of cyclone damages), and a deficit of Rs. 16,183 resulted. During the year under review, Ranges IVA and V were temporarily opened for traffic from 15th July to 31st December 1886, being a further total length of 55 miles. This caused a satisfactory increase in revenue receipts, which amounted to Rs. 29,488, but a deficit of Rs. 30,216 has resulted. The cause of this is the same as operated in the previous year, the bulk of the expenditure being chiefly for repairs to damages caused by the cyclone of 1885 and flood damages, probably nearly Rs. 40,000 of the maintenance charges were due to these. The increase in the revenue receipts is the more satisfactory when it is taken into account that the traffic was entirely local, and good results may be anticipated when through communication, which has already been established, is followed by the remodelling of the Hidgelee Tidal canal and the canal route to Cuttack is thoroughly established.

SARUN CANALS.

103. The Capital and Revenue Accounts of these canals, which have been constructed from provincial funds, are given below :—

1.—CAPITAL ACCOUNT.

HEADS OF ACCOUNT.		Outlay during 1886-87.	Outlay to end of 1886
DIRECT CHARGES.		Rs.	Rs.
Works ...	...	.....	4,79,948
Establishment ...	...	.....	1,64,176
Tools and plant ...	...	.....	25,612
Total	...	.....	6,69,736
Less—Receipts on capital account	...	.....	498
Net total	...	.....	6,69,238
INDIRECT CHARGES.			
Capitalized abatement of land revenue ...	...	.....	87,086
Leave and pension allowances ...	...	.....	27,183
Total indirect charges	...	.....	1,14,269

II. REVENUE ACCOUNT—(ACTUALS.)

	EXPENDITURE.			RECEIPTS.	
	During 1886-87.	To end of 1886-87.		During 1886-87.	To end of 1886-87.
	Rs.	Rs.		Rs.	Rs.
Maintenance and repairs	23,481	1,50,207	Water-rates	11,072	1,10,666
Establishment	5,400	34,544	Navigation	.....	263
Tools and plant	(-)978	(-)7,904	Miscellaneous	1,355	7,417
			Total	12,427	1,18,376
			Deficit	15,476	58,471
Total	27,903	1,76,847	Total	27,903	1,76,847

The expenditure of the year which is entirely under revenue account is in excess of that for the previous year, being Rs. 27,903 against Rs. 22,751. The extra cost is stated to be on account of river protective works at the head, and heavy expenditure owing to the difficulty in keeping open the head of the Thakraha Sota which is the chief source of the supply for the canals and a new cut having eventually to be made. The revenue receipts are very short, being Rs. 11,072 against Rs. 41,143 in the previous year—when there was a net profit of Rs. 18,392—as against a deficit of Rs. 15,476 in the year under review. The collections on account of water-rates, and guarantee, Rs. 11,072, are about one-half of the yearly guarantee which is Rs. 21,750. The arrears which amounted at the commencement of the year to Rs. 22,035 were at the end of the year Rs. 32,712. The result, as remarked by the Commissioner, is not satisfactory, but no explanation is forthcoming of the reason for the guarantor's withholding payment. The Collector states that they have been called upon to pay in their dues without further delay, and the balance is in course of realization.

104. The rainfall for the year was excessive, being 60.96 inches, an average of ten stations against 39.27 inches for the previous year, and a yearly average up to 1885-86 inclusive for the area under the influence of the Sarun canals of 37½ inches (observations extending over periods of 3 to 17 years).

105. There was little demand for water for irrigation purposes, or even for indigo manufacture, on which last account the construction of the canals was primarily undertaken. The area irrigated during the year was 2,146 acres against the areas shown below as irrigated in former years:—

	Acres.
1881-82	666
1882-83	1,741
1883-84	21,122
1884-85	7,223
1885-86	4,565

NUDDEA RIVERS.

106. No capital or revenue accounts are kept for these works. The revenue administration is under the direction of the Board of Revenue and civil officers, but proposals have lately been made to transfer the management to the Public Works Department.

107. The following statement shows the revenue and expenditure on these rivers for the last seven years, including direct charges only:—

Year.	REVENUE.			Charges.	Net revenue.
	Tolls.	Miscellaneous.	Gross revenue.		
	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81	2,31,957	676	2,32,633	1,21,843	1,10,790
1881-82	2,10,041	1,179	2,11,220	2,70,720	-59,500
1882-83	1,82,351	616	1,82,967	1,18,231	64,736
1883-84	2,00,908	1,926	2,02,834	1,22,378	80,456
1884-85	1,19,411	478	1,19,889	97,335	22,554
1885-86	1,83,382	—	1,83,382	77,668	1,05,714
1886-87	2,02,707	—	2,02,707	60,213	1,42,494

The results are undoubtedly satisfactory. The charges are less in the year under review than in 1885-86, and do not amount to one-half what they were in 1883-84. At the same time the gross revenue shows an increase, and is greater than in any of the preceding four years.

Traffic

108. The Administration Report submitted by the Commissioner of the Presidency Division, through the Board of Revenue, gives the following details of the traffic for the year as compared with that of the previous year. The details of former years have been taken from the previous year's revenue report:—

YEAR.	NUMBER OF BOATS.					NUMBER OF STEAMERS AND FLATS.		Number of rafts, &c.	Total number.	*Tonnage of boats by measurement.
	Below 100 maunds.	Above 100 maunds.	Passenger boats.	Empty boats.	Total boats.	Steamers.	Flats.			
1880-81	1,477	34,105	23,008	14,028	73,018	30	53	360	74,384	Tons.
1881-82	1,235	30,824	22,570	13,975	67,724	130	84	977	68,915	1,231,676
1882-83	1,044	27,386	21,013	10,907	60,350	10	60	432	61,112	916,020
1883-84	1,252	24,575	23,740	11,328	64,905	123	67	461	65,516	957,038
1884-85	1,206	20,509	24,180	9,803	55,698	301	95	1,153	61,355	909,398
1885-86	1,005	27,764	21,008	9,802	60,579	254	77	895	61,556	361,467
1886-87	1,294	20,913	23,251	11,192	65,940	351	121	765	67,979	838,403

* The figures for tonnage are taken from the monthly traffic returns.

The traffic shows a tendency to revive, and an increase in the number of boats of all classes is apparent and is more especially noticeable under the head of steamers and flats which is attributed to steamers passing to the upper provinces during the rains, and to a greater number of vessels passing through to Assam, Serajgunge and Naraingunge for oil-seeds and jute. In the Nudda portion of the Bhagirathi the increase in traffic is chiefly due to exports of wheat, rice and gram, which were produced in large quantities in the Burdwan and Moorshedabad districts. On the Jellinghee river the increase was chiefly due to the export of wheat and on the Matabhanga river chiefly to the imports of rice from the Eastern districts. The revival in the traffic and the improvement in the receipts is attributed to the favourable state of all the three rivers. The fact of the gross tonnage for the year being less than that for the previous year is accounted for by the introduction of the new system of measurement for empty boats the depth of which in calculating the maundage is now measured from the water-line instead of from the gunwale.

The total value of cargo carried is estimated at Rs. 3,57,12,518, against a value of Rs. 3,38,41,805 in the previous year.

CHARGE.

109. The charges against revenue for the past seven years are detailed in the following statement:—

YEAR.	CHARGES IN PUBLIC WORKS DEPARTMENT.							CHARGES IN CIVIL DEPARTMENT.	GRAND TOTAL.
	Works.	Maintenance and repairs of works.	Working Government timbers.	Petty items.	Establishment.	Tolls and plant.	Total.	Charges for collection.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1880-81	...	63,356	1,633	333	54,789	478	1,00,341	20,008	1,21,349
1881-82	...	10,836	74,775	...	85	32,328	1,32,196	20,798	2,74,798
1882-83	...	5,603	54,743	138	1,278	14,151	71,409	20,730	1,28,641
1883-84	...	1,031	31,618	543	533	19,907	1,01,349	21,120	1,23,460
1884-85	...	30	17,579	235	2,270	12,975	1,34,000	20,700	1,55,000
1885-86	43,134	800	1,422	9,901	1,700	20,008	51,065
1886-87	14,937	1,300	1,044	6,000	1,400	27,125	29,869

The expenditure in the year 1881-82 was altogether abnormal on account of the heavy charge of Rs. 1,38,198 for tools and plant. This sum was on account of a dredger and set of barges which was charged against these rivers.

The decrease in charges incurred by the Public Works Department under maintenance is considerable, but no explanation is afforded under this head by the Superintending Engineer. The work carried out was of the usual character, the training works on the Bhagiruthi being for the purpose of maintaining navigation throughout the year, and on the other rivers for the purpose of maintaining a supply of drinking water for the villages on their banks.

110. The total cost of collection is slightly in excess of that of the previous year which is accounted for by the greater commission drawn by the Toll Collector owing to increased collections. The percentage of cost on the gross revenue is, however, less, being 11.1 against 11.8 in the previous year. The cost per boat measured has also fallen from 5.6 to 5.4 annas.

COLLECTION
CHARGES.

EDEN CANAL.

111. This work has been constructed entirely from Provincial funds, and there is no capital or revenue accounts. Its primary object is the supply of drinking water to the villages on the banks, and it is also the source of supply for the Burdwan water-works.

112. The expenditure for the year was as follows:—

EXPENDITURE.

	Rs.
Works	16,094
Maintenance	22,258
Establishment and tools and plant	10,072
Total	48,424

113. The revenue derived was Rs. 810.

114. All irrigation from the canal was prohibited under the orders of Government, as it was found that a guarantee could not be obtained for the extra cost of maintenance that would ensue from keeping up the supply of water. The question of regular irrigation from this canal is under consideration awaiting proposals for a workable scheme under which those benefited will defray the cost of additional works necessary to keep up the level of the water, and also the cost of the yearly maintenance.

IRRIGATION.

MADHUBAN CANAL.

115. This is a small provincial work for which no capital or revenue accounts are kept. No irrigation was carried out from it during the year on account of a breach in the weir.

IRRIGATION.

116. The expenditure for the year was as below:—

EXPENDITURE.

	Rs.
Works	4,380
Maintenance	1,263
Establishment	1,298
Total	6,941

GENERAL REMARKS.

117. The net income of the year 1886-87 from Major Irrigation works in Bengal amounted to Rs. 54,029 thus:—

NET INCOME.

	Rs.
Gross direct receipts	13,86,629
“ charges	13,32,600
Net revenue	54,029

The budget estimate for net revenue was Rs. 2,05,000, and the revised estimate was (—) Rs. 55,000, thus:—

	Budget.	Revised estimate
	Rs.	Rs.
Direct receipts	13,30,000	13,30,000
charges	11,25,000	13,85,000
Net revenue	2,05,000	(—) 55,000

The net revenue of the year, though much below the budget estimate in consequence of heavy charges on account of repairs to the Mahanadi weir, was more favourable than anticipated in the revised estimate, owing to large collections of water-rates on the Sone Canals at the end of the year.

EARNINGS.

118. The following statement shows the principal results of the year calculated by the "Earnings" as compared with similar results of the previous year:—

	1885-86.	1886-87.
	Rs.	Rs.
Orissa Canals	—1,37,049	—3,00,839
Midnapore Canal	51,782	9,522
Hidgellee Tidal Canal	3,846	31,569
Sone Canals	3,39,655	2,05,864
	2,61,234	—53,884

VALUE OF CROPS.

119. The approximate value of crops irrigated by Major Irrigation work during the year is shown below:—

CANALS.	1885-86.		1886-87.	
	Area irrigated.	Value of crops.	Area irrigated.	Value of crops.
	Acres.	Rs.	Acres.	Rs.
Orissa Canals	72,339	9,91,596	77,709	9,75,447
Midnapore Canal	70,604	15,96,096	69,762	15,34,764
Sone Canals	332,570	86,44,997	268,204	67,43,580
Total	475,513	1,12,32,689	415,675	92,53,791

PLANTATIONS.

120. The state of the canal plantations on the major works is shown in the statement below:—

CANALS.	1885-86.			1886-87.		
	Trees, 12 feet high and above.	Saplings, between 4 and 12 feet.	Seedlings.	Trees, 12 feet high and above.	Saplings, between 4 and 12 feet.	Seedlings.
	No.	No.	No.	No.	No.	No.
Orissa Canals	41,817	26,098	74,038	50,737	28,148	68,711
Midnapore Canal	5,421	4,780	2,515	5,023	5,100	462
Hidgellee Tidal Canal	590	4,443	1,573	942	4,816	2,781
Sone Canals	99,228	54,429	101,310	100,637	59,990	113,939
Total	147,056	90,650	179,436	163,339	97,669	185,893

NAVIGATION REVENUE.

121. The following table shows the total of toll collections on the canals Bengal distinguishing between canals solely for navigation and those for irrig

tion and navigation with percentage of cost of establishment for collection and cost of measuring each boat:—

	TOLL COLLECTIONS.		PERCENTAGE OF CHARGES FOR COLLECTION TO AMOUNT COLLECTED.		COST OF MEASURING EACH BOAT.	
	1885-86.	1886-87.	1885-86.	1886-87.	1885-86.	1886-87.
	Rs.	Rs.			Annas.	Annas.
<i>Works partly for irrigation and partly for navigation.</i>						
Orissa Canals ...	64,093	58,664	13.9	15.5	6.0	10.1
Midnapore Canal ...	1,25,331	1,09,693	6.0	6.0	2.7	2.6
Sono Canals ...	41,712	42,015	32.7	20.3	30.2	27.1
Total ...	2,31,136	2,10,372	13.0	14.3	6.6	7.2
<i>Works for navigation only.</i>						
Hidgellee Tidal Canal ...	52,143	51,004	6.0	5.8	2.6	2.7
Calcutta and Eastern Canals ...	5,13,839	*1,73,193	8.7	8.0	4.9	4.6
Orissa Coast Canal ...	12,663	28,587	4.4	7.6	1.8	3.8
Nuddea Rivers ...	1,83,781	*2,02,707	11.8	11.1	5.6	5.5
Total ...	7,62,426	7,56,391	9.2	9.3	4.8	4.7
GRAND TOTAL ...	9,94,562	9,74,413	...	...	...	...

* Do not include miscellaneous receipts.

In the above statement if Rs. 16,660 miscellaneous receipts included in toll collections of the year 1885-86 were omitted, the gross toll collections from both classes of canals would be Rs. 9,77,902 against Rs. 9,74,413 for the year under review. The toll collections under canals for navigation only would show an excess collection of about Rs. 10,000 over the figures for the previous year and for canals for irrigation and navigation a decrease of about Rs. 13,000 chiefly on account of the falling off in the receipts for the Midnapore canal. Where the percentage of cost of collection and the cost of measurement of each boat is greater than that for the previous year, the cause is owing to the decrease in the traffic. In the Orissa Coast canal the large increase is due to the increase in the number of toll stations, while still the traffic was undeveloped. In this canal and in the Calcutta and Eastern Canals the cost of establishment is not included, being shown under maintenance charges. In future the charges should be made under the proper head. In the case of the Calcutta Canals and Nuddea Rivers, the percentage is heavy on account of the pay and commission of the Collector and Supervisor in the former case, and the large pay and commission received by the Toll Collectors in the latter, the system of administration being different to that in other canals. On the whole the result for the year may be considered very favourable, taking into account the decrease in the traffic in the Orissa and Midnapore canals, which may be considered accidental, the causes being explained under the heads of those canals.

122. The date for the submission of Revenue Reports to the office of the Chief Engineer is the 15th September. The following statement shows the dates when the different reports were received:—

		In 1886.	In 1887.
Orissa Circle ...	Commissioner's report ...	18th October	21st September.
	Superintending Engineer's report ...	1st November	26th ditto.
South-Western Circle ...	Commissioner's report ...	14th September	8th ditto.
	Superintending Engineer's report ...	23rd ditto	26th October.
Sono Circle ...	Commissioner's report ...	...	...
	Superintending Engineer's report ...	17th ditto	15th September.

The reports were very punctual with the exception of that of the Superintending Engineer, South-Western Circle. The Finance and Administrative Accounts of the year 1886-87 were not received from the Examiner until the 3rd September. A good deal of time has had again to be wasted in attempting to eliminate the discrepancies between the returns received through the Commissioners and from the Superintending Engineers and Examiner, though there is undoubtedly an improvement in this respect.

C. W. I. HARRISON, *Lieut.-Col., R.E.,*
Officiating Chief Engineer.

IA.

PUBLIC WORKS DEPARTMENT.
STATEMENT OF CANALS IN THE PROVINCE OF BENGAL.

Source of supply of water	ORISSA CANALS.			Bihar Canal.	Rivers Rup- narain and Rassulpore.	SONAR CANALS.			River Gun- duck.	River Hoogh- ly and Sunder- buddy creeks.	Tidal Canal for navigation only.	Tidal Canal for navigation only.
	Mahabudhy series.	Rivers Brahmince and Byturnee.	Total.			Eastern series. Main	Western series. Main	Total.				
Minimum discharge of river—cubic feet per second ...	6,000	5,500	11,500	700	5,257. October, 22nd, 1893.	1,613	4,342	5,955	5,052	1,084	34,45,742	34,45,742
Maximum discharge of canal—cubic feet per second ...	2,900	600	2,600	200	1,868, February 16th, 1884.	41,52	40,80	40,80	1,084	41,54	1,86,566	1,86,566
Average annual rainfall ...	280	170	400	100	447, May 27th, 1879.	406,155	1,322,354	1,728,509	5,052	61,000	.....	.....
Gross area commanded ...	3,902	1,456	5,358	1,500		317,307	1,033,089	1,350,396	5,052	50,000	.....	.....
Culturable ditto ...	63,137	63,48	63,66	63,60		309,000	707,360	1,016,360	5,052	30,000	.....	.....
Area irrigable by complete project ...	163,200	137,500	296,337	180,000		202,000	707,360	1,016,360	5,052	30,000	.....	.....
Area irrigable at present ...	439,951	137,500	577,451	125,000					5,052		.....	.....
	439,951	137,500	577,451	125,000					5,052		.....	.....
	208,957	44,047	262,904	125,000					5,052		.....	.....
Sanctioned estimate—												
Direct charges ...	3,13,96,220	3,13,96,220	3,13,96,220	83,16,788	17,72,692	2,78,88,697	13,98,607	2,78,88,697	6,63,521	.....	.....	.....
Indirect do. ...	9,19,628	9,19,628	9,19,628	1,84,215	44,607	13,98,607	13,98,607	18,99,607	33,111	.....	.....	.....
Interest during construc- tion ...	1,21,54,723	1,21,54,723	1,21,54,723	38,60,294	2,17,460	20,67,227	20,67,227	20,67,227	.....	.....	.....	.....
Total estimate ...	4,44,70,568	4,44,70,568	4,44,70,568	1,23,01,277	20,34,966	3,22,55,531	3,22,55,531	3,22,55,531	6,96,632	(a)	.....	36,02,397

Expenditure to end of 1886-87—									
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direct charges ...	2,25,07,780	2,25,07,780	82,61,992	17,95,459	2,49,98,067	2,49,98,067	6,69,230	51,64,223	37,34,760
Indirect do. ...	5,06,853	5,06,853	1,83,576	44,807	8,92,745	8,92,745	27,183	59,051	90,563
Interest during construction...	1,19,45,651	1,19,45,651	47,56,636	2,17,460	1,15,21,202	1,15,21,202	.....	.....	.....
Total expenditure	3,49,60,284	3,49,60,284	1,32,02,204	20,57,756	3,74,12,014	3,74,12,014	6,96,413	52,23,274	(5)38,24,723
Works as now sanctioned—									
Main canals, irrigation	138½	17½	53*	23*	86½	132½	6½	27	99*
Branch do. do.	107½	113½	19	Nil	Nil	148½	12½	Nil	Nil
Distributaries ...	1,434½	1,722½	230½	Nil	357½	80½	Nil	Nil	Nil
Of above—									
Navigable channels	159½	197½	72	29	86½	132½	Nil	27	99
Works completed at end of 1886-87—									
Main canals, irrigation	114	142½	53	20	86½	132½	6½	27	91
Branch do. do.	87	87	19	Nil	Nil	148½	12½	Nil	Nil
Distributaries ...	691½	691½	283½	Nil	337	80½	Nil	Nil	Nil
Of above—									
Navigable channels	139	170½	72	20	86½	132½	Nil	27	91

(c) There is no general sanctioned estimate for this project.

(c) There is no general sanctioned estimate for this project.

(d) Includes Rs. 8,68,000 expended from famine Relief Funds.

(*) Included are all S. 60 holders.

I.

PUBLIC WORKS

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

Realizations under main heads of

IRRIGATION WORKS.	REVENUE (ACTUAL RECEIPTS).									
	IRRIGATION.			Navigation.	Plantations and land.	Water-power.	Miscellaneous.	Total.	Refund of revenue.	Gross revenue less refunds.
	Water-rates directly paid.	Share of land revenue.	Total.							
1	2	3	4	5	6	7	8	9	10	11
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Major Irrigation Works.</i>										
Orissa Project	96,070	.....	96,070	67,648	1,885	.....	15,702	1,79,011	02	1,79,510
Midnapore Canal	1,08,634	.....	1,08,634	1,09,693	34	.....	19,624	2,34,160	211	2,33,074
Total Canal .. .. .	.....	.....	.....	61,193	103	.....	2,398	64,104	010	63,404
Sone Project	8,26,461	.....	8,26,461	64,254	310	608	34,727	9,18,420	16,757	9,02,663
Total	10,32,271	.....	10,32,271	2,82,980	2,301	608	68,453	13,96,020	10,960	13,85,060
<i>Minor Works and Navigation.</i>										
Tirhoot Project .. .. .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Damoodur Project .. .. .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barun Project	11,072	.....	11,072	.....	.....	.....	1,353	12,427	.....	12,427
Orissa Coast Canal	—1	.....	—1	28,587	.....	.....	902	29,468	.....	29,468
Calcutta and Eastern Canals .. .. .	.....	.....	.....	4,77,109	1,193	.....	4,272	4,83,664	.....	4,83,664
Total	11,071	.....	11,071	5,05,786	1,193	.....	7,620	5,24,660	.....	5,24,660
GRAND TOTAL	10,43,342	.....	10,43,342	7,88,766	3,494	608	76,073	19,20,680	10,960	19,09,720

NOTE.—Charges for "Direction" and "Execution" (a). Irrigation revenue officers specially establishment have been equal.

C.

DEPARTMENT, BENGAL.

WORKS IN BENGAL FOR THE YEAR ENDING 31st MARCH 1887.

Revenue and Working Expenses.

WORKING EXPENSES.																		
REVENUE MANAGEMENT.					MAINTENANCE OF WORKS.													
Establishment.				Total revenue manage- ment.	Establishment.				Works.	Repairs.	Sun- dries.	Tools and plant.	Planta- tions.	Total cost of main- tenance.	Indi- rect charges.	Grand total working expenses.	Net revenue.	
Dirac- tion.	Execu- tion.	Naviga- tion.	(a)—Civil Officers.		Dirac- tion.	Execu- tion.	Medi- cal.	Total.										
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
8,817	81,741	15,471	37,005	93,034	8,817	81,741	...	40,559	.....	3,50,793	...	14,180	1,588	1,78,896	19,703	2,20,543	-3,41,024
3,443	12,390	7,675	24,154	47,569	3,443	12,390	...	15,888	...	1,50,052	...	25,003	1,100	1,78,203	8,677	2,35,008	-1,944	
300	1,075	8,025	.....	4,403	300	1,075	...	1,378	.....	11,465	...	1,165	623	17,321	810	22,735	30,750
7,725	27,803	14,535	1,52,060	1,03,728	7,725	27,803	...	35,533	...	3,03,556	8	27,808	5,301	3,71,060	12,037	5,97,807	5,01,871	
20,385	73,023	40,607	2,01,810	3,38,134	20,385	73,023	...	93,309	.....	8,02,476	8	72,342	8,782	9,76,016	60,487	13,76,137	-6,458
.....	
.....	
587	2,113	.....	.....	2,700	587	2,113	...	2,700	.....	23,300	...	-078	121	25,203	150	25,050	-10,232
1,100	3,000	2,183	.....	7,263	1,100	3,000	...	5,060	.....	33,800	...	3,632	...	62,007	1,722	61,420	-31,056
3,000	9,401	45,714	.....	54,841	2,430	9,402	...	12,138	5,002	1,02,003	...	8,347	284	1,24,017	0,070	1,24,263	2,01,300
4,323	13,164	44,807	.....	64,784	4,323	13,165	...	19,888	5,002	1,70,121	...	10,801	806	2,05,711	11,811	2,82,340	2,43,220
24,200	68,607	93,504	2,91,819	4,08,518	24,200	68,608	...	1,15,190	5,002	9,71,990	8	18,143	0,284	11,82,077	70,311	16,58,488	2,38,760	

employed in collection of revenue.
(approximately) apportioned under the heads "Revenue Management" and "Maintenance."

ID.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT OF TRAFFIC ON CANALS IN BENGAL DURING THE YEAR 1886-87.

	Orissa Canals.	Madanpore Canal.	Huddell's Canal.	Sone Canals.	Calcutta and Eastern Canals.	Orissa Coast Canal.	Total.
Length of canal open for navigation Miles.	170½	72	29	218½	27*	91	608
Receipts—Tollage on private boats ... Rs.	47,943	93,408	51,302	38,900	4,73,049	28,358	7,38,060
" Government boats "	6,877	63	106	2,348	.....	164	9,616
" rafts ... "	3,814	2,583	436	8,321	141	66	15,401
Carrying operations or transport services } Government boats "	8,384	.....	.....	4,535	.....	.....	12,919
Fines and Sundries ... "	.....	8,639	2,500	54	10,461	901	22,555
Total receipts ... "	67,018	1,09,693	54,404	54,254	4,83,654	29,488	7,98,541
Maintenance charges, including special navigation establishment ... "	31,011	58,952	23,646	33,367	1,92,264	61,426	3,94,666
Net revenue of year ... "	36,007	50,741	30,758	20,887	2,91,390	—31,938	4,03,846
Total number of boats plying cargo ... No.	13,061	18,440	10,277	5,825	91,996	8,954	1,53,859
" " passenger ... "	1,250	15,06	1,265	683	8,189	870	27,314
Total registered tonnage of boats by canal measurement, cargo ... Tons	99,792	2,64,867	1,43,921	79,072	23,23,262	69,958	29,80,872
Total registered tonnage of boats by canal measurement, passenger ... "	28,606	81,419	5,826	18,632	19,061	4,615	1,58,159
Ton mileage—Up ...	14,84,818	49,61,878	18,05,410	17,08,890	.....	10,49,436	.....
Down ...	13,44,988	27,73,266	11,16,361	31,21,842	.....	5,60,386	.....
Total ...	28,29,806	77,35,144	29,21,771	48,30,732	.....	16,09,822	.....
Estimated value of cargoes—Up ... Rs.	23,76,395	47,01,925	15,10,711	20,69,322	4,65,48,871	7,18,448	5,79,25,672
Down ...	17,90,355	48,93,854	15,75,969	40,72,784	64,70,600	4,70,876	1,92,74,438
Total ...	41,66,750	95,95,779	30,86,680	61,42,106	5,30,19,471	11,89,324	7,72,00,110
Number of passengers—Total ... No.	71,622	2,08,582	8,569	60,372	61,013	6,110	2,96,268
Rafts, feet × feet × feet—Up ... C. ft.	49,383	1,09,562	15,989	18,286	.....	10,216	.....
" " " Down ... "	1,68,960	7,897	22,132	31,25,381	.....	854	.....
Total ...	2,18,343	1,71,459	38,121	31,43,667	.....	11,070	.....
Estimated value of rafts—Total ... Rs.	89,435	1,29,808	62,146	3,23,545	25,199	2,568	6,80,701
Tollage on boats per ton per mile ...	428 pies	24 pies	84 pies	16 pies	.....	83 pies	.....
" rafts per 100 cubic feet ...	176 rupees	15 ..	18 ..	42 annas	.....	12 ..	.....

* This length is that of the canals in the immediate neighbourhood of Calcutta.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 3rd March 1888.

No.	District and date of report.	Rainfall at Sadler Station in inches.	Character of the weather and state and prospects of the crops
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan, Mar 3, '88	Nil	Weather—clear and warm. Prospects of crops fair. Rice sold at 21 seers per rupee.
	2 Bankura " 3, '88	Nil	Weather—seasonable. Mustard and grain are being gathered. Pressing of sugarcane proceeds briskly. Wheat and barley are prospering. Cotton is in pod. No change in the rice market.
	3 Beerbhoom " 3, '88	Nil	Weather—seasonable. State and prospects of crops good. Wheat in ear. Sugarcane harvest promises well.
	4 Midnapur " 3, '88	Nil	Weather—getting hot. <i>Rubbi</i> moderate in most parts except Bimpur, where it is bad. Sugarcane, indigo and <i>boro</i> good.
	5 Hooghly " 3, '88	Nil	Weather—normal. State and prospects of crops good.
	Howrah " 5, '88	Nil	Weather—seasonable. Sugarcane is being cut, and <i>rubbi</i> crops reaped. Sugarcane is everywhere a 16-anna crop. The outturn of peas, linseed and mustard is good.
<i>Central Districts.</i>			
PRESIDENCY DIV.	6 24-Pergha, Mar 6, '88	Nil	Weather—bright; getting warmer daily. Prospects of crops good. Ploughing in progress. Manufacture of sugar still continues.
	7 Nuddea " 3, '88	Nil	Weather—seasonable. Crops on the ground good; outturn of those harvested has been fair.
	8 Khoolna " 3, '88	Nil	Days hot; nights and mornings cool. Cold-weather crops doing well.
	9 Jessore " 3, '88	Nil	Nights and mornings still somewhat cold. Lands are being tilled for early crops. Mustard and <i>katai</i> are being gathered. Prospects good.
	10 Moorshedabad " 3, '88	Nil	Weather—getting warmer. State of <i>rubbi</i> crops good. They are being cut.
RAJSHAHY DIV.	11 Dinagepur Mar. 3, '88	Nil	Weather—seasonable. Prospects of <i>rubbi</i> and other crops continue satisfactory. Lands are being prepared for <i>bhadoi</i> crops. Rice selling at 20 to 26 seers per rupee.
	12 Rajshahy " 3, '88	Nil	Weather—days hot; nights cool. Harvesting of mustard nearly finished. Prospects of <i>boro</i> paddy and spring crops generally good.
	13 Rangpur " 3, '88	Nil	Weather—days very hot. Prospects of winter crops continue good. Rain is urgently required.
	14 Bogra " 3, '88	Nil	Weather—seasonable. State and prospects of crops satisfactory.
	15 Patna " 3, '88	Nil	Weather—cloudy and warmer. State and prospects of crops favourable.
	16 Darjeeling " 3, '88	Nil	Weather—warm. State and prospects of crops good.
	17 Jalpigore " 3, '88	Nil	Weather—days getting warmer; mornings and nights cool. Ploughing for early rice continues. State and prospects of crops good.
<i>Eastern Districts.</i>			
DAWA DIVISION.	18 Dacca, Mar. 3, '88	Nil	Weather—fine and getting hot. <i>Aus</i> paddy and jute are being sown. State of <i>rubbi</i> crops on the whole good.
	19 Furraddpur " 3, '88	Nil	Weather—still fairly cool in the mornings and evenings. Prospects of crops good everywhere.
	20 Backergunge " 2, '88	Nil	Weather—now and then cloudy; otherwise seasonable. Prospects of crops good.
	21 Mymensingh " 2, '88	Nil	Weather—seasonable. State and prospects of crops good.
CHITTAGONG DIV.	22 Chittagong Mar. 6, '88	Nil	Weather—seasonable. Prospects of standing crops fair. Prices stationary.
	23 Noakhally " 2, '88	Nil	Weather—variable; warm during the day; cloudy occasionally. <i>Rubbi</i> crops doing well. Cultivation for <i>aus</i> crops in progress.
	24 Tipperah " 1, '88	Nil	Weather—getting hot; mornings and nights cool. Agricultural prospects are as good as can be desired.
	25 Chittagong Hill Tracts. Feb. 28, '88	Nil	Weather—cold in the morning and hot at noon. Tobacco and other winter crops doing well. <i>Jam</i> cutting progressing.
	Hill Tipperah " 20, '88	Nil	Weather—getting warm. Tobacco and sugarcane are still being cut. Sowing of <i>oilseeds</i> and transplanting of <i>boro</i> paddy going on.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIV.	26 Patna Mar. 3, '88	Nil	West winds no longer blowing; air sultry. Prospects of <i>rabbi</i> crops generally good. <i>Kerai</i> and <i>masur</i> in the Barh sub-division have been extensively damaged by insects. Mustard, <i>Kerai</i> and <i>masur</i> are being harvested. Opium extraction is going on. There is a slight increase in the prices of food-grains.
	27 Gaya .. 3, '88	Nil	Weather—seasonable. <i>Rabbi</i> is being harvested, and opium extracted.
	28 Shahabad .. 3, '88	Nil	Weather—getting hot, though mornings and evenings continue still pleasantly cool. Harvesting of <i>rabbi</i> crops in progress, and a fair outturn is expected. Fields are being prepared for sugarcane. Opium is being collected; the produce has not been so good as was expected owing to unfavourable weather.
	29 Darbhanga .. 3, '88	Nil	Weather—getting warm. Harvesting of mustard and linseed is in progress. Opium is being collected. Mango is in blossom. Prices stationary.
	30 Mozufferpur .. 3, '88	Nil	Days bright and warm; nights and mornings cool. <i>Rabbi</i> crops approaching maturity. Mustard being harvested. Prospects of poppy fair; collection of opium in full force.
	31 Saran .. 3, '88	Nil	Weather—clear and getting warm. Harvesting of <i>rabbi</i> in progress; outturn favourable. Indigo sowings commenced. Poppy doing well; opium is being extracted.
SHAHJOLPUR DIV.	32 Champaran .. 3, '88	Nil	Weather—getting warm and dry with west wind. Prospects of all standing crops good. Opium is being extracted. <i>Rabbi</i> crops ripening.
	33 Monghyr Mar. 3, '88	Nil	Weather—bright and clear; getting warm. Prospects of <i>rabbi</i> and poppy continue favourable. Indigo sowings in progress in the Beguerei sub-division.
	34 Bhagalpur .. 3, '88	Nil	Weather—getting hot, but still cool at night. Prospects of standing crops fair. Lands are being prepared for <i>khadoi</i> and sugarcane. <i>Pusa</i> , <i>khesari</i> , <i>masuri</i> , and <i>lini</i> are being gathered.
	35 Purneah .. 3, '88	Nil	Weather—clear and warm. <i>Rabbi</i> crops doing well. Tobacco is being cut.
	36 Malda .. 3, '88	Nil	Weather—fine, getting warm. Prospects of spring crops good except in the outpost of Talsihatta, where insects and want of rain have done some damage. Transplantation of <i>boro</i> paddy continues. Common rice selling at an average of 21 seers per rupee.
	37 Sonthal Perga .. 3, '88	Nil	Temperature rising with west winds; nights fairly cool. Prospects of <i>rabbi</i> crops good. <i>Boro dhan</i> is being transplanted at Rajmahal.
ORISSA.			
ORISSA DIV.	38 Cuttack Mar. 2, '88	Nil	Weather—seasonable; mornings foggy. Ploughing in progress. <i>Dalua</i> rice coming into ear. Common rice sells at 21 seers per rupee in town. Cattle-disease has occurred in some places in the interior.
	39 Pooree .. 1, '88	Nil	Weather—seasonable. Lands are being ploughed. <i>Dalua</i> crop is in ear. <i>Rabbi</i> is being gathered. Mango trees are abundantly in fruit. Common rice 21 seers 3 chittacks per rupee in the Sudder sub-division and 23 seers 8 chittacks in the Khorda sub-division.
	40 Balasore .. 2, '88	Nil	Weather—seasonable. Prospects of <i>dalua</i> rice favourable. Land is being ploughed.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh Mar. 2, '88	Nil	Weather—bright; getting warm. Estimate of average yield of <i>rabbi</i> eight annas. Collection of opium in progress; good outturn expected. Ploughing and planting of dry weather crops in progress. Condition of agricultural stock good, except in places where cattle-disease reported.
	42 Lohardugga .. 3, '88	Nil	Weather—getting warm. <i>Rabbi</i> is being harvested. Slight rise in prices of food-grains reported from Palamow.
	43 Singbhum .. 2, '88	Nil	Weather—cloudy; getting hot. The reports of the <i>rabbi</i> crops are good. Sugarcane has yielded well. Cotton expected to give a good outturn.
	44 Murdum .. 3, '88	Nil	Weather—getting warmer. Sugarcane pressing in progress; outturn excellent. Prospects of all spring crops fair.

Published for general information.

CALCUTTA, REVENUE DEPT.,
The 6th March 1886.P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

STOCK IN HAND IS COMPILED ON—													
NAMES OF MARKS.	1st week of Mar. 1887.	1st week of April 1887.	1st week of May 1887.	1st week of June 1887.	1st week of July 1887.	1st week of August 1887.	1st week of Sept. 1887.	1st week of Oct. 1887.	1st week of Nov. 1887.	1st week of Dec. 1887.	1st week of Jan. 1888.	1st week of Feb. 1888.	1st week of Mar. 1888.
Balinghata	Mds. 4,73,000	Mds. 14,01,000	Mds. 19,27,000	Mds. 10,36,700	Mds. 7,51,000	Mds. 6,72,000	Mds. 5,51,000	Mds. 5,13,000	Mds. 4,68,000	Mds. 3,42,000	Mds. 3,97,000	Mds. 2,84,000	Mds. 8,54,000
Ootladanga	" 61,900	" 73,400	" 60,900	" 42,600	" 53,600	" 67,000	" 66,100	" 66,100	" 63,000	" 70,400	" 75,000	" 75,900	" 87,700
Chitnore, Golabaree, Coomer- toot, Hathnole, and Gulpin Ghat.	" 5,82,700	" 7,47,100	" 6,58,200	" 6,16,600	" 5,85,800	" 5,30,500	" 5,30,500	" 6,13,500	" 6,12,100	" 6,27,800	" 5,74,800	" 4,82,200	" 6,06,100
Pachuribharua, Posta, and Jorabagan.	" 4,000	" 5,200	" 5,000	" 5,000	" 5,000	" 5,000	" 5,000	" 5,000	" 4,000	" 5,000	" 5,000	" 4,000	" 5,760
Tallyganse, Chittah, Kidderpore, and Meeshanig.	" 1,39,500	" 1,72,900	" 1,65,400	" 1,26,800	" 1,11,700	" 1,07,500	" 1,07,100	" 1,02,500	" 99,400	" 85,100	" 1,20,700	" 1,47,800	" 1,89,100
Minor Bazaar (estimated) ...	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000
Other retail shops, 3,129 in number (estimated).	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000
Boidyabatty, Nowabganse, Bhadressar, and Chandernagore.	" 5,243	" 6,142	" 6,648	" 5,775	" 6,480	" 4,750	" 51,562	" 36,816	" 27,629	" 21,031	" 27,629	" 12,194	" 9,277
Total	17,55,748	20,01,742	26,49,475	28,29,475	20,20,130	19,77,840	17,88,362	19,34,850	17,66,016	16,44,331	16,93,120	18,45,994	22,48,877
On Railway premises on both sides of the river.	17,889 (on 4th Mar. 1887.)	9,983 (on 4th April 1887.)	12,014 (on 4th May 1887.)	9,484 (on 4th June 1887.)	6,156 (on 4th July 1887.)	4,244 (on 4th August 1887.)	15,639 (on 4th September 1887.)	6,722 (on 4th October 1887.)	7,816 (on 4th Nov. 1887.)	4,832 (on 4th Dec. 1887.)	15,625 (on 4th January 1888.)	13,437 (on 3rd Feb. 1888.)	22,083 (on 3rd Mar. 1888.)
On boats and wharves loaded ...	79,968 (1st to 3rd Mar. 1887.)	24,817 (1st to 3rd April 1887.)	18,410 (1st to 3rd May 1887.)	18,822 (1st to 3rd June 1887.)	22,270 (1st to 3rd July 1887.)	29,080 (1st to 3rd August 1887.)	30,919 (1st to 3rd September 1887.)	43,456 (1st to 3rd October 1887.)	23,446 (1st to 3rd Nov. 1887.)	40,436 (1st to 3rd Dec. 1887.)	50,905 (on 3rd to 31st January 1888.)	60,731 (1st to 3rd Feb. 1888.)	70,793 (1st to 3rd March 1888.)
By Canal returns	1,77,080 (1st to 3rd March 1887.)	81,875 (1st to 3rd April 1887.)	82,237 (1st to 3rd May 1887.)	17,720 (1st to 3rd June 1887.)	24,701 (1st to 3rd July 1887.)	28,344 (1st to 3rd August 1887.)	50,307 (1st to 3rd September 1887.)	52,829 (1st to 3rd October 1887.)	45,190 (1st to 3rd Nov. 1887.)	51,327 (1st to 3rd Dec. 1887.)	1,42,630 (1st to 3rd Jan. 1888.)	2,13,893 (1st to 3rd Feb. 1888.)	1,91,087 (1st to 3rd March 1888.)
Grand Total of Stocks	26,23,219	29,47,827	27,17,307	29,75,230	20,85,227	20,80,006	19,21,918	16,59,877	18,42,468	17,45,846	16,40,639	23,06,916	25,33,453
Probable stock available for circulation by sea.	94 lakhs	20 lakhs	194 lakhs	194 lakhs	104 lakhs	104 lakhs	94 lakhs	64 lakhs	5 lakhs	74 lakhs	94 lakhs	224 lakhs	144 lakhs

STATISTICAL DEPARTMENT,
The 5th March 1888.

P. NOLAN,
Secretary to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR OHOLAH (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
BENGAL.																			
Western Districts.																			
1	Bardham	13 4	12 8	12 8	...	...	...	18 2	18 12	21 12	24 0	22 8	25 2	...	...	...	...	...
2	Bankura	13 12	13 8	12 12	18 0	18 0	24 0	19 8	19 8	18 12	20 8	21 6	24 0	...	...	...	...	...
3	Barbhoon *	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Midnapore	15 0	15 0	12 0	...	...	...	23 0	22 0	18 0	21 0	20 0	26 0	...	...	...	...	...
5	Hougly	14 0	14 0	12 0	...	...	...	10 0	10 0	10 0	17 0	16 0	18 0	...	...	...	...	...
6	Haverab	Not available.			...	...	...	14 0	14 0	13 0	20 0	20 0	20 0	...	...	...	...	...
Central Districts.																			
7	Calcutta	12 7	13 0	12 0	22 10	21 3	21 0	10 9	10 3	11 7	16 10	16 9	19 0	15 3	15 3	21 4	...	...
8	24 Pargunnahs	16 0	16 0	13 5	22 8	22 8	21 0	8 0	8 0	11 0	20 0	19 0	18 12	...	...	...	...	...
9	Nuddea	16 8	16 0	15 4	32 0	32 0	32 0	14 8	14 8	16 0	18 5	19 4	19 0	...	...	...	...	...
10	Khulna	...	...	...	...	...	...	21 0	18 0	17 12	23 0	21 8	21 0	...	...	...	...	...
11	Jessore	13 4	13 4	15 0	...	...	...	17 0	18 0	16 0	23 0	22 12	21 8	...	...	...	...	...
12	Murshidabad	15 0	13 5	16 0	...	...	...	18 0	16 0	16 0	23 0	23 0	23 0	...	...	...	...	...
13	Tumkurpore	11 0	13 8	11 4	21 0	21 0	22 0	20 0	19 5	20 0	23 0	24 4	26 0	...	...	...	...	...
14	Itanahary	16 8	16 8	18 8	46 0	46 0	45 0	16 8	16 8	17 4	22 8	21 0	22 8	...	...	...	...	...
15	Rangpur	11 6	13 4	12 12	...	...	...	13 4	13 4	16 0	20 0	20 0	22 8	...	...	...	...	...
16	Bagta	16 0	17 4	16 8	...	...	...	15 0	16 0	15 0	26 4	26 4	26 4	...	...	...	...	...
17	Pabna	17 0	18 0	18 12	...	...	...	8 0	8 0	10 0	24 12	23 8	23 8	...	...	...	...	...
18	Darjeeling	10 8	10 0	8 0	11 0	11 0	9 0	5 0	5 0	5 0	14 0	13 0	14 0	...	...	...	...	...
19	Jalpaigore	13 0	13 0	10 0	20 0	20 0	20 0	13 0	13 5	14 0	20 0	20 0	26 0	...	...	...	...	...
Eastern Districts.																			
20	Dacca	12 12	16 0	16 8	25 17	26 0	26 0	19 0	19 0	16 0	21 8	22 0	19 0	...	...	...	...	...
21	Farrukpore	19 0	18 0	16 0	40 0	40 8	35 0	16 0	16 0	16 0	21 0	21 0	22 8	...	...	...	...	...
22	Meckergunge	...	...	...	...	...	...	16 0	15 0	15 8	20 4	21 0	17 8	...	...	...	...	...
23	Myemungah	14 0	11 0	12 8	...	...	...	12 8	12 0	12 0	18 8	18 8	17 8	...	...	...	...	...

* Return not received.

A In sub-divisions retail prices of salt per rupee were:—Culca 10½ seers, Ramnagar 9½ seers.

B At Bishnupore retail price of salt 9½ seers per rupee.

C In sub-divisions retail prices of salt per rupee were:—Ghatat 10½ seers and Tumlook and Tontal 8 seers.

D In sub-divisions retail prices of salt per rupee were:—Serampore 10 seers, and Jehanabad 9½ seers.

E At Barrackpore retail price of salt 9½ seers per rupee.

F In sub-divisions retail prices of salt per rupee were:—Koochies and Ranghat 10 seers, Meherpore 11 seers, and Chinsurah 10½ seers.

G In sub-divisions retail prices of salt per rupee were:—Nathkura 9 seers 2½ chittacks and Bagichet 8 seers.

H In sub-divisions retail prices of salt per rupee were:—Jhaidah and Makara 8 seers, Dacca 7½ seers, and Rangpur 9½ seers.

INDIAN-CORN OR MAIZE. (<i>Zea Mays.</i>)			ARHAR OR TURU CANDIAN PHA. (<i>Cajanus indicus.</i>)			FIRWOOD.			SALT.			SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	

[illegible]

17 0	23 3	24 9	18 4	19 1	17 4	85 0	92 10	80 0	8 9	11 6	13 0	3 14 9	3 5 0	3 0 0	Calcutta.
...	...	23 6	21 4	21 4	17 8	80 0	100 0	100 0	9 6	10 8	13 0	3 14 6	3 7 0	2 14 0	24-Pergunnahs.
...	...	...	24 10	24 10	19 0	...	...	...	9 2	9 2	11 104	4 0 0	3 14 0	3 0 0	Nudden.
...	...	...	...	...	...	160 0	160 0	160 0	8 0	9 0	10 8	4 8 0	3 12 0	3 12 0	Khoolna.
...	...	...	50 0	52 0	36 0	100 0	100 0	110 0	9 0	9 4	10 12	4 4 0	3 12 0	3 4 0	Jeapore.
...	...	40 0	...	23 0	21 0	200 0	200 0	180 0	11 0	11 0	12 0	3 10 0	3 10 0	3 5 0	Moornadatalad
...	...	...	18 12	18 0	...	160 0	160 0	140 0	9 8	10 0	12 0	4 0 0	3 12 0	3 4 0	Dungapore.
...	...	...	16 0	16 2	16 0	240 0	240 0	240 0	9 9	9 9	12 0	4 4 0	3 13 4	3 2 6	Rajshahi.
...	...	...	9 0	10 0	10 6	120 0	120 0	120 0	8 6	10 0	10 8	4 13 0	3 14 0	3 6 0	Itanagore.
...	...	...	...	...	...	90 0	90 0	90 0	8 4	8 1	10 8	4 5 4	4 5 4	3 5 4	Bogra.
...	...	...	26 4	27 0	24 0	200 0	200 0	200 0	9 4	10 0	12 0	4 5 3	.....	3 5 3	Pabna.
25 0	26 0	22 0	8 0	8 0	8 0	120 0	120 0	120 0	9 0	9 0	9 0	4 4 0	4 4 0	3 1 0	Darjeeling.
20 0	20 0	...	9 6	9 0	...	120 0	120 0	120 0	9 0	9 0	11 0	4 0 0	4 0 0	3 6 0	Jalpigonna.

000	000	100	16 0	18 8	120 0	120 0	120 0	8 0	10 10	10 8	4 8 0	3 12 0	3 8 0	Dacca.
000	000	000	16 0	160 0	160 0	120 0	11 0	12 0	12 0	3 4 0	3 1 0	3 2 0	Farrukpore.	
000	000	000	11 0	10 0	14 0	120 0	120 0	120 0	9 8	0 0	12 0	3 10 0	3 4 0	Backergunge.
000	000	000	10 0					8 14	10 0	11 10	4 8 0	3 14 0	3 8 0	Mymensingh.

In sub-divisions retail price of salt per rupee were :—Nattore 2½ seers and Bangalore 8 seers.
 In sub-divisions retail price of salt per rupee were :—
 At Gaibanda retail price of salt 7 seers per rupee.
 At Barangunge retail price of salt 8½ seers per rupee.
 At Pallacotta in Alipore sub-division retail price of salt 8 seers per rupee.
 In sub-divisions retail price of salt per rupee were :—Manickgange 8 seers, Moonsheegunge 10 seers, and Naraingunge 9 seers.
 In sub-divisions retail price of salt per rupee were :—Penukhal 8 seers, Perampore 9 seers.
 In sub-divisions retail price of salt per rupee were :—Kishoregunge 8 seers, Ation 10 seers, Netrokone 9 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

		QUANTITIES PER RUPEE IN																							
		WHEAT			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUR. (Sorghum Vulgare.)											
Number.	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.						
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.					
Eastern Districts—continued.																									
22.	Chittagong	11 0	11 0	16 0				14 0	12 8	13 0	20 0	19 0	18 0												
23.	Noakholly							20 0	20 0	20 0	22 0	23 0	23 0												
24.	Tipperab	13 8	13 8	11 10				17 8	17 8	16 11	25 0	25 0	20 11												
25.	Chittagong Hill Tracts. Hill Tipperab							14 8	14 8	12 14	16 0	16 0	13 14												
		8 0	8 0	12 0				13 0	10 0	14 0	28 0	26 0	19 0												
BEHAR.																									
26.	Patna	16 8	16 0	16 0	28 0	29 0	32 0	11 8	11 8	11 8	20 0	20 0	23 0	20 0	20 0	26 0									
27.	Gya	14 0	13 0	14 0	19 0	16 0	20 0	10 0	11 8	16 0	18 0	19 0													
28.	Shahabad	13 0	13 8	13 4	22 0	21 8	27 0	9 8	11 8	10 0	17 14	17 0	20 8	23 8	13 0										
29.	Durbhanga	14 8	14 8	18 0	30 4	30 0	30 0	13 0	15 8	13 0	20 0	20 12	30 0												
30.	Monroffore	13 0	12 0	17 0	21 0	30 0	30 0	12 0	12 0	12 0	20 0	19 0	32 11												
31.	Barab	13 8	13 8	14 0	23 0	25 8	32 0	8 8	8 8	9 0	20 0	20 8	21 0												
32.	Clumpran																								
33.	Monghyr	16 12	15 12	15 3	25 3	27 4	33 9	13 14	13 14	14 12	18 4	18 4	19 3												
34.	Bhagulpore	15 2	13 11	15 12	15 4	25 4	31 5	16 6	16 6	18 15	18 15	20 8	21 7												
35.	Purneah	14 0	14 0	20 0	24 0	32 0		27 0	20 0	20 0	22 0	22 0	22 0												
36.	Maidah	17 0	16 0	13 0				13 0	13 0	20 0	23 0	22 0	26 0												
37.	Southal Paraka.	11 4	11 4	12 0				16 8	16 0	16 0	23 0	23 0	20 0												
ORISSA.																									
38.	Cuttack	15 12	16 12	13 2				10 8	10 8	10 8	21 0	21 0	18 6												
39.	Pooree	14 7	14 7	9 3				14 7	16 12	17 1	23 10	23 10	20 4												
40.	Balasore	15 0	13 0	16 0	13 0	13 0	13 0	16 0	15 0	13 0	26 0	24 0	24 0												
CHOTA NAGPORE																									
South-Western Frontier Agency.																									
41.	Bazarough	12 0	12 0	16 0	32 0	18 0	21 0	9 0	9 0	10 0	16 0	16 0	20 0												
42.	Lohamugga	14 0	12 0	19 0				18 0	16 0	16 6	19 0	19 6	21 0	24 0											
43.	Bingahoon	12 0	11 0	24 0	24 0	30 0	34 0	16 0	14 0	28 0	23 0	23 0	32 0												
44.	Mantiboon	11 0	11 0	16 0	32 0	34 0	30 0	14 0	14 0	18 0	24 0	22 0	28 0												

* Return not received.

O At Cox's Bazar retail price of salt 11 seers per rupee.

P At Lanchagacha in Ferozy sub-division retail price of salt 7 seers per rupee.

Q At Aurangabad retail price of salt 8½ seers per rupee.

R In sub-divisions retail prices of salt per rupee were:—Buxar 11 seers, Samastipur 10½ seers, and Bhadrachal 11 seers.

S At Madhubani retail price of salt 10 seers per rupee.

T In sub-divisions retail prices of salt per rupee were:—Sastanpur 10 seers, and Hajipore 10½ seers.

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INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR TUR. CADIAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS.			
												DISTRICTS.			
Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	

S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	R. A. P.	R. A. P.	R. A. P.	
...	8 0	8 0	10 0	110 0	110 0	75 1	O	9 0	12 0	4 3 0	3 13 0	3 0 0	Chittagong.			
...	P	8 0	11 0	4 8 0	4 8 0	3 6 0	Naakholly.			
...	8 0	8 0	11 1	...	...	...	10 8	10 8	11 1	3 12 0	3 13 0	3 3 0	Tippurah.		
...	320 0	320 0	320 0	8 0	8 1	8 0	4 8 0	4 8 0	4 8 0	Chitagong Hill Tracts.			
...	12 0	12 0	10 0	...	...	...	9 0	9 0	11 0	4 4 0	4 4 0	3 4 0	Hill Tippurah.		

BRIAR.																																	
■	0	26	0	39	0	23	0	20	0	28	0	120	0	120	0	120	0	10	0	10	8	11	8	3	12	0	9	8	0	3	1	■	Patna
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Q	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gya.
22	8	...	...	...	...	19	8	13	0	14	0	150	0	100	0	100	0	10	0	11	0	12	0	...	...	...	...	...	...	...	...	...	Shahabad.
25	8	25	8	28	0	16	0	15	8	22	0	180	0	180	0	168	0	0	8	10	0	13	0	4	4	0	3	11	0	3	0	0	Darbhanga.
26	8	26	0	27	0	14	0	12	0	20	0	180	0	160	0	140	0	19	0	10	0	12	0	...	...	...	...	...	...	...	...	...	Muzaffarpore.
23	8	24	4	24	8	10	4	16	8	22	8	160	0	160	0	160	0	9	8	10	11	11	8	4	4	0	3	9	8	3	4	0	Surnau.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Chhapra.
27	14	26	4	31	8	10	4	16	13	21	0	126	0	120	0	128	0	10	8	11	0	12	0	3	6	0	3	5	0	2	15	0	Monghyr.
26	4	25	4	31	0	23	11	16	0	21	7	151	0	164	0	170	7	9	8	10	1	12	10	4	0	0	3	0	0	3	1	0	Bhagulpore
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ferozshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Malda.
■	0	29	0	40	0	24	0	24	0	27	0	200	0	200	0	200	0	0	8	10	0	12	0	3	13	0	2	13	0	3	3	0	Nonthal Pergau.

...	...	...	19 11	19 11	...	80 0	80 0	80 0	8 12	8 12	14 0	4 0	4 0	4 0	2 13	0	Cattaraugus
...	...	...	17 1	17 1	18 8	70 0	70 0	70 0	10 8	10 8	14 7	3 8	3 8	3 8	2 10	0	Pontreue
...	...	...	10 8	10 8	12 0	20 0	20 0	100 0	8 8	8 8	10 0	4 8	4 8	4 1	3 10	0	Balsamor

6	21	036	0	18	0	18	0	17	0	820	0	820	0	820	0	7	8	0	10	0	5	0	0	4	4	0	3	8	0	Hazardsburg.			
24	0	24	0	24	0	<div style="display: inline-block; vertical-align: middle;"> <div style="text-align: center;">big</div> <div style="text-align: center;">small</div> <div style="text-align: center;">0</div> </div>	20	20	0	145	0	160	0	120	0	9	1	9	13	10	0	4	0	4	2	0	3	18	0	Leonardsburg.			
						20	0	19	0	21	0	34	0	240	0	820	0	8	0	9	0	9	0					1	0	Singbroom.			
28	0		0	40	0	22		31	8	21	0	200	0	210	0	24	0	0	2	9	2	10	10	3	8	0	3	12	0	3	6	0	Mouthoom.

P. NOLAN,
Secy. to the Govt. of Penna.

PRICE-CURRENT (wholesale) of Food-grains, Firewood, &

Name.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta	9 13 11	9 13 7	8 3 3	1 8 0	1 7 10	1 10 0	3 8 7	3 11 11	3 7 0	9 3 0	9 2 0	2 12 5
2	Serraigunge	2 2 0	2 2 0	2 1 0	...	...	...	3 6 0	3 6 0	3 11 0	...	1 14 0	1 9 0
3	Dacca	2 10 0	2 6 0	2 6 0	1 8 0	1 8 0	1 8 0	2 0 0	2 0 0	2 6 0	1 12 0	1 12 0	2 9 0
4	Nareidgunge	...	...	...	...	...	...	2 0 0	...	2 5 0	1 12 0	...	2 0 0
5	Chittagong	3 8 0	3 8 0	2 6 0	...	...	...	2 12 0	3 0 0	3 0 0	1 14 0	2 0 0	2 0 0
6	Patna	2 8 0	2 7 0	2 7 0	1 6 0	1 5 0	1 3 0	3 0 0	3 0 0	3 0 0	1 12 0	1 12 0	1 11 6
7	Balsore	2 8 0	3 0 0	2 8 0	3 0 0	3 0 0	3 0 0	2 6 0	2 8 0	3 0 0	1 7 0	1 10 0	1 6 0
8	Pooree	...	...	...	...	...	...	...	...	...	1 8 0	1 8 0	1 6 3
9	Cuttack	2 6 0	2 6 0	3 0 0	...	...	...	3 10 0	3 10 0	3 10 0	1 11 0	1 11 0	1 9 0

CALCUTTA,

The 6th March 1888.

undermentioned *Marts* of Bengal on the 29th February 1888.

GRAM, CHANA, CHHOLA, KADILAY OR SURAGA. (<i>Cleor Aristinum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR THUR CARJAN PEA. (<i>Cajanus indicus</i> .)			FIRWOOD.			JALY.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
3 0 4	1 14 2	1 11 0	2 1 7	1 8 0	1 4 0	1 14 10	1 13 8	2 2 0	0 6 7	0 8 8	0 8 9	3 14 9	3 5 0	3 0 0	Coleen.
2 6 0	2 8 0	1 14 0	...	...	...	...	...	...	...	...	...	4 12 0	3 11 0	3 1 1	Sorsjunge.
2 0 0	2 3 0	2 2 0	...	...	...	2 0 0	2 0 0	...	0 6 0	0 5 0	0 5 0	4 8 0	3 12 0	3 8 0	Dacca.
3 6 0	...	2 1 0	...	...	...	2 9 0	...	...	0 8 0	...	0 8 0	4 8 0	...	3 3 0	Narainjunge.
3 10 0	3 8 0	3 4 0	...	...	...	4 8 0	4 4 0	3 12 0	0 5 0	0 5 0	0 5 0	4 3 0	3 13 0	3 0 0	Chittagong.
1 13 0	1 14 6	1 6 6	1 7 0	1 7 0	1 4 0	1 12 0	1 14 8	1 6 0	0 5 0	0 5 0	0 5 0	3 12 0	3 8 0	3 1 1	Patna.
2 8 0	2 4 0	3 7 0	...	...	...	3 9 0	3 4 0	3 2 0	0 4 0	0 4 0	0 6 0	4 8 0	4 1 0	3 10 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 8 0	3 8 0	3 10 0	Pooree.
1 11 0	(hala) 1 11 0	2 0 0	...	...	...	2 0 0	2 0 0	...	0 8 0	0 8 0	0 8 0	4 0 0	4 0 0	3 12 0	Cuttack.

Published for general information

P. NOLAN,
Secy. to the Govt of Bengal.

DISTRICT	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
NORTH BHAR—contd.														
BARU	Gopalgungo ...	180	—	0.28	0.47	3.11	6.84	8.85	0.82	0.07	0.53	—	—	45.07
	Sewan ...	1.68	—	0.29	0.12	3.38	7.49	5.18	10.47	8.02	4.00	—	—	40.98
	Chuprah ...	1.80	—	0.30	0.03	7.39	5.23	11.40	6.05	2.88	4.95	—	—	41.64
SOUTH BHAR.														
BHAUBAD	Butar ...	1.78	—	0.61	0.53	5.74	3.71	6.50	7.50	0.71	4.71	—	—	36.48
	Bahree ...	1.60	—	0.32	0.05	5.81	6.05	0.85	7.94	5.71	2.02	—	—	30.41
	Blahoon ...	1.27	—	0.22	0.05	3.13	3.02	10.47	14.40	4.81	4.05	—	—	42.92
	Basman ...	1.66	—	0.05	1.21	4.75	2.05	4.83	15.10	3.82	4.43	—	—	38.46
	Arrah ...	1.59	—	1.12	0.11	10.42	4.38	7.29	6.03	5.06	5.80	—	—	45.10
	Mohaniah ...	0.03	—	—	—	—	—	7.00	12.50	4.90	3.20	—	—	29.29
GIA	Aurangabad ...	1.50	—	0.54	0.00	5.47	2.68	7.81	7.19	2.32	0.98	—	—	33.18
	Gya ...	1.30	—	0.35	0.30	4.25	0.65	10.34	10.89	0.27	0.73	—	—	44.14
	Nowada ...	1.25	—	0.93	0.00	2.83	4.07	11.80	0.59	4.57	1.67	—	—	38.03
	Jahmabad ...	1.65	—	1.60	0.64	5.72	4.40	10.87	0.51	6.31	8.02	—	—	41.53
	Arwal ...	1.61	—	0.04	0.78	7.00	3.00	10.20	8.00	4.25	4.66	—	—	42.31
	Ischnagar ...	0.95	—	0.22	0.20	0.20	0.12	5.99	6.43	2.77	2.40	—	—	20.21
	Sherrghati ...	2.40	—	0.75	—	5.28	3.75	0.02	8.43	0.20	0.87	—	—	36.90
	Rajauli ...	2.59	—	0.10	0.40	4.55	1.16	7.64	10.67	4.00	0.20	—	—	32.13
	Pakri Farawan ...	2.01	—	0.87	—	1.08	2.55	6.34	6.28	5.97	0.60	—	—	24.90
	Patna ...	1.45	—	0.56	0.13	0.61	6.29	8.64	5.25	3.51	3.20	—	—	36.04
PATNA	Dinapore ...	2.05	—	0.56	0.20	0.24	6.08	0.37	6.11	3.03	2.83	—	—	40.97
	Bihar ...	3.04	—	2.00	0.10	6.08	4.57	8.59	10.83	5.27	1.10	—	—	40.00
	Barru ...	1.55	—	1.10	0.20	7.15	3.87	8.09	0.00	7.35	3.30	—	—	38.61
	Bickram ...	1.00	—	0.60	—	—	3.60	4.85	4.05	2.06	0.70	—	—	41.86
	Misa ...	1.35	—	1.00	0.46	10.10	5.85	11.53	5.33	2.85	5.38	—	—	30.97
MORCHTA	Beegnosrai ...	3.08	—	0.64	0.62	4.62	0.75	10.70	12.01	9.59	2.51	—	—	55.03
	Morchyr ...	2.47	—	0.54	1.26	9.12	6.01	13.08	0.97	0.97	8.64	—	—	52.69
	Jamun ...	2.36	—	2.85	0.64	11.24	5.44	8.76	10.53	6.45	2.07	—	—	45.35
	Gopri ...	3.15	—	—	0.05	5.76	0.80	—	1.65	10.70	0.60	—	—	37.11
	Shelipura ...	1.80	—	0.70	—	4.90	3.40	6.50	5.31	7.02	2.05	—	—	30.66
SOUTH BHA- GULFPORE.	Bhagulpore ...	3.28	—	0.92	0.07	7.80	0.98	10.77	4.72	5.40	1.28	—	—	40.07
	Bupka ...	1.74	—	1.47	0.34	0.24	4.65	0.21	8.81	6.45	2.94	—	—	43.93
	Kulpong ...	2.03	—	0.85	2.15	11.72	15.14	0.40	0.70	5.75	0.87	—	—	40.73
SOUTHAL PER- GONNAB.	Rajmihal ...	1.12	—	0.82	0.89	21.18	7.44	12.02	8.37	5.75	4.00	—	—	61.29
	Gonab ...	1.63	—	1.75	2.78	10.87	4.15	13.32	8.77	5.16	1.31	—	—	55.74
	Pakour ...	1.16	—	1.41	1.04	12.50	8.44	18.10	18.54	16.82	0.39	—	—	64.65
	Nya Dookha ...	1.93	—	1.29	0.17	12.74	9.25	9.70	8.37	0.50	0.80	—	—	49.85
	Donghar ...	1.28	—	1.01	1.34	7.10	0.13	14.38	10.81	4.07	5.60	—	—	38.99
	Jamuna ...	2.57	—	1.05	1.14	7.87	0.71	10.30	0.89	5.84	2.23	—	—	44.91
	Nimra ...	2.05	—	0.85	1.45	15.05	9	?	?	?	?	—	—	40.08
	Nimhat ...	2.04	—	1.20	0.40	4.30	2.88	7.39	8.24	12.10	1.73	—	—	40.08
CHUTIA NAGPORE.														
NARABIAH	Pachmala (Giridi) ...	1.65	—	0.97	0.68	3.84	6.47	11.71	11.77	7.11	0.80	—	—	43.46
	Hazribach ...	2.69	—	0.15	0.27	5.85	4.32	14.82	11.89	6.53	2.46	—	—	49.63
	Sentagurah ...	2.13	—	0.15	0.25	6.14	5.30	11.43	8.07	6.68	2.14	—	—	43.30
	Mahudi Hila ...	2.62	—	—	0.32	7.14	5.43	12.44	14.80	6.54	1.10	—	—	40.90
	Jhoomrui Hila ...	1.90	—	—	—	7.60	7.90	17.80	15.00	8.00	0.20	—	—	49.00
	Burhi ...	3.49	—	—	1.80	5.27	1.40	13.54	11.25	4.56	1.16	—	—	49.36
	Chatra ...	2.31	—	—	—	9.53	5.11	14.06	10.62	10.39	0.82	—	—	51.64
	Kavagdeha ...	—	—	1.05	0.33	6.74	7.23	27.71	17.62	12.40	1.80	—	—	75.23
	Ranghar ...	3.01	—	—	0.15	6.00	4.75	13.85	14.80	5.40	—	—	—	53.73
	Lohardugga ...	2.70	—	—	0.21	6.15	6.72	13.68	17.05	5.25	1.39	—	—	56.66
LOHARDUGGA	Raunhes ...	2.22	—	—	0.68	11.64	12.42	11.25	13.21	6.87	1.53	—	—	59.60
	Palanow ...	4.10	—	—	0.23	6.52	1.02	15.39	16.81	8.38	2.19	—	—	52.61
	Salti ...	0.41	—	1.01	0.05	4.00	7.20	10.30	13.84	6.8	1.00	—	—	44.35
	Balumat ...	—	—	—	—	5.84	—	—	—	—	—	—	—	—
	Hosainabad ...	1.23	—	0.20	0.15	4.88	6.93	9.18	10.70	1.05	1.24	—	—	36.85
RIVERBOOM	Garioah ...	4.36	—	—	—	4.11	6.34	20.51	13.20	3.78	4.79	—	—	17.65
	Chyehara ...	0.31	—	0.11	0.19	11.44	5.72	13.85	14.17	6.18	0.32	—	—	52.36
	Chokanharpor ...	0.45	—	0.50	0.78	5.20	7.30	13.08	9.21	3.90	0.68	—	—	39.68
	Ghatilla ...	1.79	—	0.29	1.25	4.18	0.74	15.04	17.41	10.30	0.80	—	—	59.79
	Baharagura ...	0.54	—	1.44	2.29	4.20	8.10	9.56	8.77	7.51	1.88	—	—	44.16
MIRBOOM	Purulia ...	1.10	—	0.17	0.06	7.22	5.04	9.59	14.09	0.28	2.05	—	—	47.35
	Bobindpora ...	1.99	—	0.24	1.45	4.54	4.44	8.95	7.28	6.22	0.61	—	—	32.35
	Raghunathpora ...	1.38	—	0.03	0.82	7.80	4.46	7.05	8.03	0.77	2.05	—	—	30.94
	Harrathoum ...	0.50	—	0.40	2.51	5.54	5.22	9.53	14.20	7.77	1.27	—	—	45.74
	Jhalda ...	0.98	—	0.23	—	5.74	?	?	?	7.58	1.05	—	—	—
CHAS	Chas ...	2.08	—	—	1.30	3.79	?	13.76	?	?	?	—	—	—

* Through misconceptions and owing to change of officers the rainfall reports were not submitted from Jhalda and Chas.

METEOROLOGICAL OFFICE, BENGAL,
The 6th March 1888.

A. PEDLER,
Offg. Meteorological Reporter to the Government of Bengal.

**Abstract of the results of Meteorological Observations taken at the Alipore
Observatory in the month of February 1888.**

	Inches.	Date.	Hour.
The mean pressure of the month ...	29.965		
The average pressure of February from 24 years' registers ...	29.915		
The highest pressure in the month ...	30.171	3rd	10h.
The lowest pressure in the month ...	29.804	15th	16h.
The range of pressure ...	0.367		
The total number of hours of bright sunshine during the month	274.1		
The maximum possible number of hours of sunshine	329.7		
°			
The mean temperature of the month ...	69.7		
The average temperature of February from 24 years' registers	73.0		
The highest temperature in the month ...	89.4	27th	
The lowest temperature in the month ...	50.9	1st	
The range of temperature during the month ...	38.5		
The mean daily range of temperature	21.2		
The greatest range of temperature in one day ...	29.5	25th	
Per cent.			
The mean humidity of the month ...	69		
The average humidity of February from 24 years' registers ...	67		
Inches.			
The mean vapour tension of the month ...	0.485		
The average vapour tension of February from 24 years' registers	0.538		
The mean cloud proportion of the month ...	1.70		
The average cloud proportion of February from 11 years' registers	1.87		
Inches.			
The total rainfall of the month ...	1.60		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	1.57		
The average fall of February from 48 years' registers	0.87		
The greatest fall in 24 hours ...	1.49	9th	
Days.			
The number of rainy days in the month ...	2		
The average number of rainy days in February from 24 years' registers ...	3		
°			
The mean maximum equilibrium temperature of solar radiation during the month ...	136.0		
The mean difference of sun and air temperatures ...	55.0		
The greatest sun temperature ...	143.5	29th	
The greatest excess of sun over air temperature ...	59.4	12th	
The mean temperature of the nocturnal radiation thermometer on woollen cloth ...	51.4		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground ...	8.4		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature ...	11.6	24th and 29th	
Miles.			
The mean movement of the wind per day ...	68.3		
The greatest movement of the wind in one day ...	179.0	10th	
The greatest movement of the wind in one hour ...	13.0	9th, 6 to 7 P.M.	
The number of hours with winds from each of the 8 points—			

N. 106, NE. 20, E. 11, SE. 24, S. 49, SW. 144, W. 90, NW. 111, Calm 141.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2.1° lower; and, finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

A. PEDLER,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 5th March 1888.

For Off. Meteorological Reporter to the Govt. of India.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.														
DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
		Mean barometric height, 10 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature.	Mean daily temperature.	Variation from normal mean of week.
CENTRAL.	Pooree	29.885	30.045	+0.050	Calm	12.70	80.2	24th Feb.	79.9	27th Feb.	84.3	72.3	78.6	+0.9
	Falke Point	29.836	30.054	+0.016	WNW	15.50	80.5	24th "	79.0	26th Feb.	87.3	64.3	75.8	-1.4
	Cuttack	29.974	30.057	+0.058	Calm	24.0	80.0	25th "	65.7	26th "	86.3	68.3	81.8	+0.5
	Balasore	29.970	30.030	+0.057	NNE	84.0	82.4	24th "	79.6	26th "	88.4	62.1	75.3	-2.2
	South-West Midnapore	30.036	30.063	+0.025	NNW	102.0	83.2	24th "	61.4	1st Mar.	85.7	68.2	76.0	-0.8
SOUTH-WEST BENGAL.	South 24 Pargannas	30.036	30.063	+0.025	NNW	102.0	83.2	24th "	61.4	1st Mar.	85.7	68.2	76.0	-0.8
	Midnapore	29.922	30.075	+0.075	N	70.3	84.3	24th "	61.2	24th Feb.	81.4	63.9	77.7	+0.8
	24 Pargannas	30.020	30.054	+0.034	NNW	72.0	80.5	24th "	66.3	25th "	86.8	61.3	74.2	-1.3
	Howrah	29.951	30.054	+0.033	NW	53.0	82.4	24th "	66.8	24th "	89.6	60.8	75.2	-0.3
	Bankura	29.731	—	—	NW	23.0	80.3	24th "	61.7	1st Mar.	87.2	63.6	75.5	—
SOUTH-EAST BENGAL.	Boerghoom	29.736	30.053	+0.053	NW	102.0	83.7	24th "	69.8	24th Feb.	90.5	62.4	76.4	+1.0
	West Burdwan	29.950	30.048	+0.056	WNW	67.0	81.7	24th "	65.2	24th "	89.4	59.6	73.4	-1.0
	Medinipur	29.950	30.026	—	W, WNW	72.1	81.7	24th "	62.1	24th "	88.7	66.3	75.5	—
	Nadua	30.013	30.047	+0.048	NW	57.4	82.3	24th "	65.5	25th "	89.5	67.1	73.3	-2.5
	Khoolna	29.940	30.034	+0.074	Calm, NE	62.0	84.6	24th "	65.6	25th "	86.7	60.3	73.6	+0.7
SOUTH BENGAL.	Chittagong	29.915	30.027	+0.060	NE	40.1	80.3	24th "	61.7	25th "	80.4	58.4	72.0	-3.7
	Chittagong Hill Tracts	29.907	30.041	+0.041	Calm	67.5	83.3	24th "	61.5	25th "	86.4	50.7	71.6	-2.2
	Barisal	30.014	30.053	+0.081	NW	53.0	80.3	27th Feb.	60.0	25th "	84.7	66.1	75.4	-4.3
	Dacca	30.007	30.034	+0.032	WSW	55.0	80.1	24th Feb.	65.1	25th "	87.2	60.7	73.8	-1.1
	Comilla	30.004	30.030	+0.031	N	37.2	80.4	27th Feb.	63.0	24th "	87.5	67.7	72.6	-2.4
NORTH BENGAL.	Mymensingh	29.974	30.023	+0.045	Easterly	52.7	87.1	24th "	62.3	25th "	85.0	65.5	76.5	+0.7
	Bogra	29.934	30.002	+0.052	W, NW	73.0	80.3	24th "	62.4	25th "	87.6	63.6	71.6	—
	Patna	29.978	30.025	+0.046	WSW	47.8	80.0	24th "	60.7	25th "	86.7	64.8	70.3	-2.4
	Rajshahi	29.964	30.035	+0.071	SW	65.1	80.3	24th "	60.7	25th "	86.7	64.8	70.3	-2.4
	Maldah	29.934	—	—	NW	49.7	80.2	1st Mar.	48.1	25th "	87.4	62.0	70.2	—
NORTH BENGAL.	Dinapore	29.855	30.007	+0.052	WSW	95.0	88.1	24th Feb.	62.7	24th "	88.0	64.8	76.4	+0.6
	Rungpore	29.834	30.023	+0.045	W	79.0	86.3	24th "	61.9	24th "	85.5	64.8	69.6	+0.2
	Jalpigore	29.727	30.034	+0.058	E	20.3	84.9	27th "	56.4	24th "	82.8	67.3	76.1	+1.7
	Cooch Behar	22.053	—	+0.058	Calm	38.0	56.0	24th "	40.0	1st Mar.	51.7	42.5	48.6	+4.1
	Darjeeling Hill Tracts	22.053	—	+0.058	Calm	38.0	56.0	24th "	40.0	1st Mar.	51.7	42.5	48.6	+4.1
NORTH BENGAL.	Purneah	29.911	30.041	+0.054	Calm, NW	60.0	82.2	24th "	48.6	24th Feb.	86.3	58.1	70.7	+0.6
	North Bhagalpore	29.904	30.038	+0.067	WSW	160.0	84.9	24th "	57.4	25th "	82.0	59.5	70.7	+1.3
	Moulampur	29.777	30.010	+0.034	WSW	230.7	80.2	24th "	48.1	24th "	85.1	62.3	68.8	-0.8
	Chumbarun	29.937	30.038	+0.047	W	184.0	80.5	24th "	54.0	25th "	88.3	60.1	71.6	+0.8
	Sarna	29.691	30.031	+0.059	W, SSW	225.1	86.4	24th "	57.8	25th "	85.9	61.1	74.0	+2.1
SOUTH BENGAL.	Shahabad	29.810	30.067	+0.081	WNW	175.4	87.9	24th "	63.0	25th "	86.6	59.6	75.0	-0.7
	Arrah	29.820	30.038	+0.042	W, WNW	124.3	89.6	25th "	60.7	24th "	87.9	61.0	74.5	+0.7
	Gya	29.657	30.045	+0.051	Westerly	118.0	80.6	24th "	56.8	24th "	86.0	61.0	74.5	+0.7
	Patna	29.851	30.040	+0.044	WNW	112.9	80.8	24th "	54.6	1st Mar.	86.0	67.1	71.6	+1.1
	South Bhagalpore	29.670	30.043	+0.077	W	121.0	80.4	24th "	63.0	25th Feb.	85.4	64.8	75.2	+0.6
SOUTH BENGAL.	Monghyr	29.530	—	+0.103	NW	100.2	82.1	24th "	54.1	24th "	86.0	63.7	75.7	-0.8
	South Pargannas	29.030	30.061	+0.064	NW, N.W.	203.7	80.3	27th Feb.	54.8	20th "	85.9	58.8	71.4	-1.8
	Hazratnagar	29.000	30.047	+0.069	NW	190.0	86.0	27th "	54.0	24th "	86.1	64.6	77.9	-0.8
	Manbhum	29.278	—	+0.178	SSW	20.8	82.4	24th "	58.0	1st Mar.	90.1	62.3	76.5	-0.4
	Singhpur	29.278	—	+0.178	SSW	20.8	82.4	24th "	58.0	1st Mar.	90.1	62.3	76.5	-0.4

* Means for six days.

Explanation. — Summary. — The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and 100 overcast by 100. The numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question. The numerical means in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 2nd of March 1888.

DISTRICT OBSERVATIONS.														Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.											
			Mean for district.	Normal mean.	Since 1st of February.			Since 15th May 1887.			Average number of rainy days.	Normal number of rainy days.				
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
05	0.8	—	—	—	—	—	—	—	—	—	—	—	—	Gopalpore	Pooree	BRABH.
06	1.0	Nil	Nil	0.05	1.05	0.85	+0.20	47.47	57.35	—10.88	0.0	0.0	0.0	False Point	...	BRABH.
07	1.1	Nil	Nil	0.10	1.30	0.80	+0.50	47.91	53.45	—5.54	—	—	—	Cuttack	Cuttack	BRABH.
08	0.1	Nil	Nil	0.10	2.47	1.02	+1.45	46.01	55.12	—9.11	0.0	0.0	0.0	Balasore	Balasore	BRABH.
09	2.3	Nil	Nil	0.44	3.48	1.60	+1.88	62.60	64.10	—1.50	0.0	0.0	0.0	Saugor Island	South-West Midnapore	BRABH.
10	1.7	Nil	Nil	0.52	1.55	1.20	+0.35	52.09	52.87	+0.78	0.0	0.0	0.0	Midnapore	Midnapore	BRABH.
11	1.7	Nil	Nil	0.36	1.60	1.45	+0.15	43.21	53.75	—10.54	0.0	0.0	0.0	Calcutta	Howrah	BRABH.
12	2.3	Nil	Nil	0.17	0.38	1.12	—0.74	47.25	47.83	—0.58	0.0	0.0	0.0	Bardwan	Bardwan	BRABH.
13	0.4	Nil	Nil	0.18	0.81	0.67	+0.14	51.45	53.09	—1.64	0.0	0.0	0.0	Bankura	Bankura	BRABH.
14	0.6	Nil	Nil	0.07	0.70	1.02	—0.32	44.74	53.48	—8.74	0.0	0.0	0.0	Ranagunge	Hooghly	BRABH.
15	1.3	Nil	Nil	0.05	0.06	0.79	+0.73	50.12	50.63	+0.51	0.0	0.0	0.0	Borhanpore	Meerut	BRABH.
16	2.5	Nil	Nil	0.20	1.10	1.21	—0.11	45.45	50.69	—5.24	0.0	0.0	0.0	Krishnagar	Nuduh	BRABH.
17	2.7	Nil	Nil	0.31	0.91	1.32	—0.41	47.42	55.26	—7.84	0.0	0.0	0.0	Jessore	Jessore	BRABH.
18	1.6	Nil	Nil	0.37	1.08	0.99	+0.09	101.07	115.65	—14.58	0.0	0.0	0.0	Chittagong	Chittagong	BRABH.
19	0.6	Nil	Nil	0.53	1.21	1.23	—0.02	63.06	83.60	—20.54	0.0	0.0	0.0	Dumagiri	Chittagong Hill Tracts	BRABH.
20	0.6	Nil	Nil	0.43	1.11	1.02	—0.09	62.40	70.61	—8.21	0.0	0.0	0.0	Darjeeling	Backergunge	BRABH.
21	1.6	Nil	Nil	0.71	0.30	1.70	—1.40	71.79	111.45	—39.66	0.0	0.0	0.0	Noakhali	Noakhali	BRABH.
22	0	Nil	Nil	0.45	1.11	1.30	—0.19	57.73	57.81	—0.08	0.0	0.0	0.0	Farrukpore	Farrukpore	BRABH.
23	1.3	Nil	Nil	0.22	1.07	1.23	+0.16	43.50	42.39	+1.11	0.0	0.0	0.0	Dacca	Dacca	BRABH.
24	0.4	Nil	Nil	0.36	1.27	1.26	+0.01	41.45	72.73	—31.28	0.0	0.0	0.0	Comilla	Comilla	BRABH.
25	1.5	Nil	Nil	0.30	0.64	1.21	—0.57	61.38	69.40	—8.02	0.0	0.0	0.0	Mymensingh	Mymensingh	BRABH.
26	0	Nil	Nil	0.20	0.43	1.07	—0.64	50.90	58.23	—7.33	0.0	0.0	0.0	Bogra	Bogra	BRABH.
27	0.7	Nil	Nil	0.25	1.69	1.14	+0.55	45.92	55.02	—9.10	0.0	0.0	0.0	Serajpore	Patna	BRABH.
28	0	Nil	Nil	0.63	1.13	0.56	—0.57	50.75	55.03	—4.28	0.0	0.0	0.0	Rampore	Rajshahi	BRABH.
29	0	Nil	Nil	0.01	0.17	0.03	—0.16	46.85	53.40	—6.55	0.0	0.0	0.0	Maldah	Maldah	BRABH.
30	0.1	Nil	Nil	0.07	0.34	0.50	—0.16	69.59	56.07	+13.52	0.0	0.0	0.0	Dinapore	Dinapore	BRABH.
31	0	Nil	Nil	0.09	0.13	0.54	—0.41	51.09	73.96	—22.87	0.0	0.0	0.0	Rangpore	Rangpore	BRABH.
32	0	Nil	Nil	0.05	0.10	0.36	—0.30	118.03	110.97	+7.06	0.0	0.0	0.0	Faridkot	Faridkot	BRABH.
33	4.9	Nil	Nil	0.12	0.43	1.03	—0.60	118.83	121.86	—3.03	0.0	0.0	0.0	Darjeeling	Darjeeling Hill Tracts	BRABH.
34	0.1	Nil	Nil	0.02	0.05	0.53	—0.48	65.96	68.50	—2.54	0.0	0.0	0.0	Purneah	Purneah	BRABH.
35	0	Nil	Nil	0.04	Nil	0.43	—0.43	47.30	43.79	+3.51	0.0	0.0	0.0	Muzafferpore	Muzafferpore	BRABH.
36	0	Nil	Nil	0.01	Nil	0.42	—0.42	50.07	44.81	+5.26	0.0	0.0	0.0	Bachhanga	Bachhanga	BRABH.
37	0.4	Nil	Nil	Nil	Nil	0.45	—0.45	49.82	46.90	+2.92	0.0	0.0	0.0	Mohamud	Chumpram	BRABH.
38	0	Nil	Nil	0.03	Nil	0.45	—0.45	40.25	43.81	—3.56	0.0	0.0	0.0	Gopur	Saen	BRABH.
39	0	Nil	Nil	0.03	0.01	0.18	—0.17	38.63	40.80	—2.17	0.0	0.0	0.0	Jehan	Jehan	BRABH.
40	0	Nil	Nil	0.03	Nil	0.45	—0.45	40.25	43.81	—3.56	0.0	0.0	0.0	Buzar	Shahabad	BRABH.
41	0	Nil	Nil	0.03	Nil	0.45	—0.45	40.25	43.81	—3.56	0.0	0.0	0.0	Arran	Arran	BRABH.
42	1.9	Nil	Nil	0.08	0.07	0.48	—0.41	30.30	42.10	—11.80	0.0	0.0	0.0	Gya	Gya	BRABH.
43	0.1	Nil	Nil	0.03	Nil	0.45	—0.45	30.81	43.04	—12.23	0.0	0.0	0.0	Bankipore	Patna	BRABH.
44	0.1	Nil	Nil	0.12	0.04	0.57	—0.53	43.70	43.74	—0.04	0.0	0.0	0.0	Bhagalpore	South Bhagalpore	BRABH.
45	0	Nil	Nil	0.03	0.30	0.51	—0.21	43.10	51.06	—7.96	0.0	0.0	0.0	Jamun	South Bhagalpore	BRABH.
46	2.4	Nil	Nil	0.10	0.09	0.05	—0.04	47.61	51.30	—3.69	0.0	0.0	0.0	Hazratnagar	Hazratnagar	BRABH.
47	2.5	Nil	Nil	0.09	0.74	0.93	—0.19	46.27	48.87	—2.60	0.0	0.0	0.0	Lauch	Lauch	BRABH.
48	0.6	Nil	Nil	0.10	1.75	0.26	+1.49	53.53	52.40	+1.13	0.0	0.0	0.0	Chyabasa	Ranghoom	BRABH.

NOTE.—The figures in the column headed "Variation" are the difference between the actual and the corresponding normal mean, and positive when greater. The figures in the column headed "Normal mean" are the normal means of the district, the whole set being divided by 10. Under the head "District observations of rainfall" the normal means of the district are given, the figures in the column headed "Variation" are the difference between the actual and the corresponding normal mean, and positive when greater.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 2nd of March 1888.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of February.	Average total rain-fall from 1st of February.	Total rain-fall since 1st of May 1887.	Average rainfall from 1st of May to date.
			Saturday, 25th February.	Sunday, 26th February.	Monday, 27th February.	Tuesday, 28th February.	Wednesday, 29th February.	Thursday, 1st March.	Friday, 2nd March.	Number of rainy days.	Rainfall of week.				
ORISSA	Poonch	Poonch	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.89	0.79	30.49	52.09
		Khandah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	0.70	39.59	52.15
		Bampur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.59	1.13	39.79	52.28
		Fulbari Point	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.49	0.79	70.01	53.22
		Pipili	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.41	?	30.22	?
	Cuttack	Jagatsinghpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.29	0.88	33.04	44.61
		Cuttack	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.97	0.65	47.28	53.29
		Kondapath	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.92	0.78	20.93	57.33
		Jajpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.40	0.67	57.93	61.06
		Bharmalla	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.72	1.24	50.06	63.55
	Balasore	Satipora	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	45.19	?
		Chandali	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.30	0.88	43.88	53.19
		Bladruick	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.86	1.32	47.00	53.47
		Sorah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.19	0.84	41.20	53.51
		Baharsa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.29	1.25	51.84	53.94
SOUTH-WEST BENGAL	Midnapore	Baripodah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	1.19	40.10	54.64
		Contai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.32	0.54	40.00	53.75
		Saugor Island	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.40	1.89	51.58	63.51
		Tinalook	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.46	1.05	73.89	68.08
		Midnapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.10	1.71	52.73	52.83
	24-Pergunnahs	Ghatol	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.92	1.25	48.92	50.44
		Kokulnity	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	0.90	51.25	53.39
		Hera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.74	?	67.40	?
		Bhagwanpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.50	?	41.97	?
		Garbeta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.15	?	45.17	?
	Howrah	Diamond Har- bour	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.17	?	51.61	?
		Channing Trench	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.00	1.06	61.75	60.65
		Alipore Jail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	4.15	?	60.18	?
		Burmahpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.71	1.75	61.55	67.48
		Long-Dam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.29	1.57	62.50	61.18
	Hooghly	Daroes	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.74	1.39	41.63	53.80
		Biscuit	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	3.24	1.40	41.90	51.96
		Howrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.37	1.34	63.12	60.00
		Mohesraha (Outberiah.)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.41	1.42	50.75	53.94
		Howrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.65	1.42	41.03	60.90
	Bardham	Semapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.34	1.29	36.41	53.51
		Hooghly	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.13	1.51	41.89	40.96
		Jhansabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	1.32	37.58	53.38
		Calcutta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	1.19	30.13	45.85
		Bardham	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.11	0.92	47.29	40.48
	Bankura	Calcutta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.86	1.25	53.44	48.83
		Raniganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.92	1.26	47.98	50.40
		Hankur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.82	?	47.03	?
		Bankura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.84	0.90	45.37	52.91
		Bishnupore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.00	0.70	67.02	51.57
	Barrackpore	Mulana	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.70	0.66	50.25	60.54
		Khatra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.80	0.57	51.13	57.40
		Indus	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	?	41.64	?
		Koimpara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.04	?	40.10	?
		Anda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	?	30.44	?
	Barrackpore	Gangajalghati	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.66	?	50.40	?
		Rajpara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.15	?	54.55	?
		Sonabakhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.92	?	37.31	?
		Bh. Suury	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	0.95	50.56	52.10
		Belampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.71	1.01	51.87	55.46
	Nuddea	Raniganj	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.56	0.84	45.40	53.47
		Kishinagar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.67	?	45.45	?
		Chowdhura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.28	1.28	41.05	48.57
		Chowdhura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	1.08	45.01	47.16
		Melapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.25	1.23	43.41	53.71
	Khowda	Khowda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.67	1.37	46.84	46.78
		Khowda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.47	1.28	41.03	54.19
	Khowda	Sathura	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	1.40	40.87	57.94
		Barrackpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.30	0.95	51.05	51.52
		Khowda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.65	1.40	45.90	57.04
	Jamtara	Natal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.01	1.27	21.72	48.76
		Jamtara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.11	1.27	45.91	50.40
		Jhansabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.84	1.40	44.09	50.57
		Magdoh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.58	1.17	32.44	51.55
		Bongong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.26	1.11	58.08	52.43
	Narail	Kandi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.39	0.33	47.98	52.01
		Bherampore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.05	1.01	51.84	51.99
		Lalpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2.00	0.50	40.24	49.15
		Amungpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.71	0.77	50.40	51.31
		Jamungpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.55	0.76	53.24	48.33
	Narail	Lalpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.40	0.67	51.02	51.06
		Adhigang	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.46	?	53.44	?
		Patkuluri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.53	?	?	?
		Narail	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.08	0.83	125.50	184.67
		Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.60	1.33	74.88	90.91
	Chittagong	Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.18	?	70.80	?
		Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.35	?	65.31	?
		Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.85	1.37	30.54	50.15
		Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.76	1.10	40.85	51.57
		Chittagong	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.76	1.10	40.85	51.57
	Barisal	Barisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.18	1.51	50.73	50.15
		Barisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.30	1.50	50.71	51.07
		Barisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.54	1.28	50.40	50.79
		Barisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.18	1.40	40.85	51.57
		Barisal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.18	1.40	40.85	51.57

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 2nd of March 1888—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of February.	Average total rain-fall from 1st of February.	Total rain-fall since 1st of May 1887.	Average rainfall from 1st of May 1887 to date.
			Saturday, 26th February.	Sunday, 27th February.	Monday, 28th February.	Tuesday, 29th February.	Wednesday, 30th February.	Thursday, 1st March.	Friday, 2nd March.	Number rainy days.	Of inch (1/16).				
SOUTH-BENGAL.	Barrackpore.	Gangadadi .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.29	1	41.35	1
		Banhal .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.81	1	63.10	1
		Noakholly .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.23	1.47	74.78	112.11
		Fenny .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.14	1.95	74.77	111.48
	Faridkot.	Harishpora .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.33	1	75.37	1
		Kamraj .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.29	1	63.35	1
		Madaripore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.32	1.37	50.21	56.11
	Dacca.	Faridkot .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.37	1.31	30.61	30.76
		Golundo .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.42	1.39	37.33	38.43
		Munshiganj .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.79	1.51	41.41	73.44
	Hill Tippera.	Dacca .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.81	1.51	47.61	61.22
		Narainpore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	2.18	0.80	44.60	63.01
		Manickpore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.88	1.27	30.32	64.87
	Tippera.	Jaydebpore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.86	1	61.73	1
		Asarola .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.50	1.67	45.21	68.58
		Comilla .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.15	1.13	30.10	78.90
	Mymensingh.	Chandpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.30	1.09	40.67	83.40
		Brachmanbaria .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.20	1.60	44.53	61.76
		Ranachandrapore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.14	1	39.70	1
	Dacca.	Narainpore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.43	1	37.91	1
		Brachmanbaria .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.67	1	37.17	1
		Kutba .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.45	1	44.16	1
	Dacca.	Lalsham .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.15	1	37.21	1
		Kishoreganj .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.70	1.04	58.17	71.46
		Atia (Tangail) .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.28	1.13	41.21	57.80
	Dacca.	Mymensingh .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.61	2.25	30.46	58.50
		Jamshilpore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.14	1.14	32.30	63.75
		Narainpore .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.61	0.92	14.49	73.30
	Dacca.	Subarnachilly .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.68	1	62.40	1
		Dacca .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.50	1	11.51	1
		Dacca .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	79.05	1
NORTH-BENGAL.	Fulbari.	Fulbari .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.56	1.14	30.45	58.05
		Dacca .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1.02	1.24	52.34	84.22
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.42	1.19	48.23	61.20
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.55	1.14	39.50	68.44
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.51	1.02	37.41	61.34
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.24	0.62	68.36	63.33
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.65	0.86	48.00	63.72
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.50	1	62.82	60.23
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.34	1	36.68	1
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.10	1	6.72	1
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.19	0.54	40.82	58.58
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.16	0.79	43.81	58.06
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.19	1	61.20	1
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.15	1	64.02	1
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.38	0.62	62.18	58.37
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.23	0.54	58.51	57.97
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.15	0.65	73.63	57.33
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.10	0.60	30.24	63.04
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.41	0.50	31.71	51.56
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.20	0.50	37.50	63.04
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.09	0.41	30.01	71.78
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.05	0.50	74.75	74.00
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.18	0.62	107.41	83.94
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	61.40	1
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.15	0.14	125.71	110.83
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.11	1	110.17	1
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.14	1	103.00	1
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.11	1	90.75	1
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.14	0.10	102.09	90.37
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.14	0.31	122.61	118.55
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.07	0.57	122.68	100.55
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.05	0.33	117.19	117.33
	Nagpur.	Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.50	0.90	100.25	100.21
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.21	0.43	108.04	100.50
		Nagpur .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.50	0.50	100.71	100.70
NORTH-BENGAL.	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.14	0.14	81.57	80.83
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.14	0.14	100.48	100.48
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.13	0.55	66.52	51.03
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.15	1	80.24	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	81.33	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	79.29	1
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.09	0.61	54.74	49.58
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.43	0.43	54.39	64.50
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	60.50	1
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.41	0.41	44.70	43.74
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.45	0.45	52.87	40.74
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.41	0.41	55.60	43.24
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	60.70	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	60.70	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	60.70	1
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.38	0.38	60.31	48.38
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.40	0.40	43.90	40.71
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.40	0.40	37.63	62.06
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	41.01	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	1	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	1	1
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	1	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	1	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	1	1
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.30	0.30	59.36	44.10
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	0.50	0.50	30.72	40.31
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	30.44	1
	Purnea.	Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	30.44	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	30.44	1
		Purnea .....	.....	.....	.....	.....	.....	.....	.....	Nd	Nd	1	1	30.44	1

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 2nd of March 1888.—*conold.*

Administrative Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of February.	Average total rainfall from 1st of February.	Total rainfall since 1st May 1887.	Average rainfall from 1st May to date.
			Saturday, 25th February.	Sunday, 26th February.	Monday, 27th February.	Tuesday, 28th February.	Wednesday, 29th February.	Thursday, 1st March.	Friday, 2nd March.	Number of rainy days.	of rainfall week.				
SOUTH BENGAL—continued.	Murshidabad.	Gopalpur...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.48	42.38	44.78
		Bhawan...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.50	38.74	44.50
SOUTH BENGAL.	Shahabad.	Chaurah...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.38	38.42	47.12
		Bazar...	...	...	...	...	...	...	...	Ni	Ni	0.02	0.41	34.73	39.28
		Dumra...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	30.09	?
		Shubhoor...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.54	41.88	47.30
		Kamaram...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.50	38.44	41.37
		Arwah...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.48	41.34	40.78
		Mohana...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	?	?
	Gya.	Aurangabad...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.57	20.96	49.58
		Alia...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.53	47.79	43.09
		Nowadab...	...	...	...	...	...	...	...	Ni	Ni	0.02	0.56	30.54	40.79
		Jehanabad...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.45	40.77	41.94
		Arwal...	...	...	...	...	...	...	...	Ni	Ni	0.31	?	41.13	?
		Bandhagar...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	29.81	?
		Shoroghat...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	30.45	?
		Kajauli...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	?	?
		Pakri Karawan...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	22.24	?
		Patna...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.40	37.17	42.78
	Patna.	Chinspur...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.35	38.41	41.01
		Behar...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.60	35.54	42.88
		Barr...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.46	30.98	39.57
		Dickran...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	40.45	?
		Ilia...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	31.34	?
	Madrasi.	Begowah...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.50	40.98	40.27
		Madrasi...	...	...	...	...	...	...	...	Ni	Ni	0.05	0.60	47.54	47.98
		Jamun...	...	...	...	...	...	...	...	Ni	Ni	0.59	0.65	40.13	43.78
		Chupri...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	42.13	?
		Shikhpura...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	28.34	?
	South Bhawalpore.	Simulpore...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.55	41.23	49.38
		Banka...	...	...	...	...	...	...	...	Ni	Ni	Ni	0.51	30.16	44.04
		Kolung...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	45.45	?
	Bomhal Perganahs.	Bajmuni...	...	...	...	...	...	...	...	Ni	Ni	0.07	0.29	67.18	62.13
		Gudda...	...	...	...	...	...	...	...	Ni	Ni	0.10	0.58	49.36	45.43
		Pakour...	...	...	...	...	...	...	...	Ni	Ni	0.25	0.55	78.31	53.70
		Aya Doozka...	...	...	...	...	...	...	...	Ni	Ni	0.46	0.71	45.71	51.08
		Dengur...	...	...	...	...	...	...	...	Ni	Ni	0.18	0.64	47.30	50.95
		Jamara...	...	...	...	...	...	...	...	Ni	Ni	0.55	0.57	40.35	50.10
		Amra...	...	...	...	...	...	...	...	Ni	Ni	?	?	?	?
		Amritgar...	...	...	...	...	...	...	...	Ni	Ni	0.05	?	36.78	?
SOUTH BENGAL.	Hazaribagh.	Pachamua...	...	...	...	...	...	...	...	Ni	Ni	0.50	0.67	42.00	46.41
		(Guruli)...	...	...	...	...	...	...	...	Ni	Ni	?	?	?	?
		Hazaribagh...	...	...	...	...	...	...	...	Ni	Ni	0.44	0.78	47.51	48.08
		Somnagar...	...	...	...	...	...	...	...	Ni	Ni	0.45	0.77	41.29	40.02
		Manudi Hills...	...	...	...	...	...	...	...	Ni	Ni	?	0.73	48.73	48.73
		Jhoomrah Hills...	...	...	...	...	...	...	...	Ni	Ni	0.60	0.66	58.50	68.31
		Burna...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	30.70	?
		Chakra...	...	...	...	...	...	...	...	Ni	Ni	0.19	?	40.97	?
		Karapdha...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	72.48	?
		Kumbhar...	...	...	...	...	...	...	...	Ni	Ni	0.50	?	31.54	?
	Lohardugga.	Lohardugga...	...	...	...	...	...	...	...	Ni	Ni	0.59	?	37.18	?
		Manudi...	...	...	...	...	...	...	...	Ni	Ni	0.76	1.24	58.38	13.01
		Palamow...	...	...	...	...	...	...	...	Ni	Ni	0.08	0.59	00.71	43.50
		Silli...	...	...	...	...	...	...	...	Ni	Ni	?	?	?	?
		Balumar...	...	...	...	...	...	...	...	Ni	Ni	1.20	?	?	?
		Kompanabad...	...	...	...	...	...	...	...	Ni	Ni	Ni	?	33.21	?
		Harwah...	...	...	...	...	...	...	...	Ni	Ni	0.10	?	34.95	?
		...	...	...	...	...	...	...	...	Ni	Ni	?	?	?	?
	Sagbhoon.	Chyotom...	...	...	...	...	...	...	...	Ni	Ni	1.75	8.04	53.03	53.46
		Chakradhar...	...	...	...	...	...	...	...	Ni	Ni	1.99	?	41.23	?
		pore...	...	...	...	...	...	...	...	Ni	Ni	?	?	?	?
		Chattalia...	...	...	...	...	...	...	...	Ni	Ni	0.91	?	55.79	?
	Machhob.	Bharapara...	...	...	...	...	...	...	...	Ni	Ni	1.99	?	41.15	?
		Parulia...	...	...	...	...	...	...	...	Ni	Ni	1.10	1.07	42.53	40.31
		Gohindpore...	...	...	...	...	...	...	...	Ni	Ni	0.42	0.91	39.43	46.68
		Kapthamath...	...	...	...	...	...	...	...	Ni	Ni	1.21	?	38.94	?
		pore...	...	...	...	...	...	...	...	Ni	Ni	?	?	?	?
		Burrahoom...	...	...	...	...	...	...	...	Ni	Ni	1.18	?	43.31	?
		Jhalda...	...	...	...	...	...	...	...	Ni	Ni	1.12	?	?	?
		Cum...	...	...	...	...	...	...	...	Ni	Ni	0.61	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 6th March 1888.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 2ND MARCH 1888.

THE meteorological conditions which obtained over Bengal during the previous week were those which mark the gradual change from the north-east monsoon to the hot weather season. Similar conditions have obtained throughout the whole of the present week. Westerly and north-westerly winds have prevailed during a considerable portion of the week and over a large part of the province, but at the southern stations winds have been rather variable, and they show a decided tendency to become southerly. The variations of pressure have been of the usual oscillatory character, though on the whole pressure has been decreasing. Temperature on the other hand has been almost steadily rising, and towards the end of the week some rather high maximum temperatures were reported. Humidity has remained fairly low at most stations, and the sky has been almost free from cloud or very lightly clouded over the whole province; while at no station has any rain been reported. The meteorological conditions for the week in fact again call for no particular remark, except that the hot weather conditions are rapidly establishing themselves.

Pressure—Generally fell on the 25th and was almost stationary on the following day; this was succeeded by a moderate fall lasting two days, and then by a slight rise lasting the same period; but on the 2nd pressure was again falling. Notwithstanding the decrease, the average pressure for the week has been decidedly above the normal, and taking into consideration only those stations from which observations have been received for many years, and which therefore yield reliable averages, the mean pressure for the province has been 0.053 inch in excess of the normal.

Temperature.—As has been already stated, temperature has risen almost steadily throughout the week, and thus, while the average mean temperature of the whole of the province in the previous week was 69.7°, in the present week it has risen to 72.9°, showing an increase of 3.2° in the week. The actual mean temperatures recorded during the week have, however, not been far removed from the normal, and for the whole province the mean temperature has been 0.2° lower than usual. The actual temperatures recorded and their variations from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in the province are compared with the normal values for the same period. Generally speaking it will be seen that the maximum or day temperatures have been rather above the normal, while the minimum or night temperatures have been below it.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 2nd March 1888.

	Normal mean maximum temperature for the week ending 2nd March.	Actual mean maximum temperature for the week ending 2nd March 1888.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 2nd March.	Actual mean minimum temperature for the week ending 2nd March 1888.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 2nd March.	Actual mean daily temperature for the week ending 2nd March 1888.	Variation of actual mean from the normal.
Outlook	91.0	95.3	+4.3	69.6	68.2	-0.4	81.3	81.8	+0.5
Calcutta	85.8	86.9	+1.1	65.1	61.4	-3.7	75.4	74.2	-1.2
Dacca	80.3	87.9	+7.6	63.4	59.7	-3.7	71.9	73.8	+1.9
Bardwan	82.1	89.6	+7.5	63.3	60.8	-2.5	75.7	75.2	-0.5
Palna	84.3	86.0	+1.7	66.6	67.1	+0.5	76.6	71.6	-5.0
Gya	87.3	87.0	-0.3	60.2	61.0	+0.8	73.8	73.5	-0.3
Purneah	85.4	86.6	+1.2	64.7	66.2	+1.5	70.1	70.7	+0.6
Hazribagh	81.8	83.6	+1.8	67.8	68.9	+1.1	69.9	71.4	+1.5
Darjeeling	59.6	64.7	+5.1	58.5	62.3	+3.8	66.6	69.6	+3.0

Rainfall—Has been entirely absent from the province for the whole week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 2nd of March 1888:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lower observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Minimum of February.		Minimum 15th May 1887.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Ima.	86.9	59.0	89.0	66.7	77.9	-0.6	NH	0.12	-0.13	0.0	0.3	-0.3	1.00	0.90	46.38	56.15
South-West Bengal	84.3	52.1	88.6	61.8	75.1	-0.6	NH	0.20	-0.20	0.0	0.5	-0.5	1.20	1.17	48.87	58.43
East Bengal	80.1	60.0	86.1	67.9	72.2	-1.3	NH	0.28	-0.28	0.0	0.5	-0.5	1.10	1.28	37.04	70.88
North Bengal	80.8	60.1	86.9	64.9	70.4	-0.4	NH	0.10	-0.10	0.0	0.4	-0.4	0.42	0.56	74.25	70.73
North Bihar	89.5	68.1	84.8	68.2	70.6	+0.5	NH	0.02	-0.02	0.0	0.2	-0.2	0.02	0.47	52.57	47.08
South Bihar	82.1	58.0	86.5	69.0	72.8	+0.4	NH	0.03	-0.03	0.0	0.2	-0.2	0.06	0.51	42.77	44.56
Central Bengal	80.0	64.3	84.1	69.1	71.6	+0.6	NH	0.13	-0.13	0.0	0.2	-0.2	0.73	0.80	46.88	50.24

Observations not included.

A. PEDLER,
Off. Meteorological Reporter to the Govt. of Bengal.

**Results of the Meteorological Observations taken at the Alipore Observatory from
26th February to 3rd March 1888.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1888.		°		Inches	°	°	°	°		Inches	°	%			Inches	
Feb.	26th	142.2	10.8	30.014	72.1	87.7	25.6	58.4	64.3	0.504	59.2	66	NNW and calm	38	Nil	Clear,
"	27th	142.6	10.8	29.948	75.1	89.4	24.2	61.2	67.1	.558	62.0	60	Wly S, WNW, and SWly S.	80	"	Clear.
"	28th	142.6	10.8	.905	76.9	88.7	22.5	66.2	67.6	.552	61.8	63	NNW and WNW	97	"	Clear.
"	29th	143.5	10.8	.925	73.8	85.5	21.0	64.6	63.6	.435	55.0	56	NNW and WNW	88	"	Partially cloudy,
Mar.	1st	146.2	9.1	.945	73.1	87.5	25.4	59.1	62.1	.414	63.7	55	NNW and WNW	75	"	Partially cloudy,
"	2nd	146.8	8.9	.907	71.5	88.2	21.9	63.9	63.6	.445	55.6	56	WSW and WNW	68	"	Partially cloudy,
"	3rd	145.2	10.8	.918	73.9	89.8	29.8	69.0	63.1	.433	55.0	57	WSW, NNW and SW.	37	"	Clear.

The mean pressure of the seven days	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20.958
The total number of hours of bright sunshine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Hours.
The maximum possible number of hours of sunshine	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	72.3
The mean temperature of the seven days	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	°
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	74.2
The extreme variation of temperature	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	77.3
The maximum temperature	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	81.4
The highest velocity of the wind in one hour	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Miles.
The highest pressure of wind on one square foot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	lbs.
The mean relative humidity	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	%
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	60
The total fall of rain from 26th February to 3rd March 1888	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Inches.
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nil
The total fall from 1st January to 3rd March 1888	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.42
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.52
The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.78

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

= fog, Δ dew.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 5th March 1888.

Abstract of the Results of the Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of February 1888.

The mean temperature during the month	...	...	71.2	Date.
The highest temperature during the month	...	...	91.5	27th.
The lowest temperature during the month	...	...	51.7	1st.
The range of temperature during the month	...	...	39.8	
The mean daily range of temperature during the month	...	...	23.1	
The greatest range of temperature in one day during the month	...	...	30.9	26th.
The mean humidity during the month	...	...	64	%
The mean vapour tension during the month	...	...	48.9	Inches.
The total rainfall of the month	...	...	1.69	
The greatest fall in 24 hours	...	...	1.65	10th.
The number of rainy days in the month	...	...	2	Days.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India

METEOROLOGICAL OFFICE, INDIA;

The 5th March 1888.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 26th February to 3rd March 1888.

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.		"	"	"	"	"	Inches.	"	%	Inches.
February	26th	74.0	90.0	30.8	59.1	63.0	461	56.7	65	Nil
"	27th	77.2	91.5	28.8	62.7	67.9	560	62.2	60	"
"	28th	73.8	80.8	24.7	60.1	66.5	491	58.1	50	"
"	29th	75.3	87.2	23.3	61.0	62.2	587	61.8	44	"
March	1st	71.7	89.2	30.3	58.9	61.1	459	56.6	54	"
"	2nd	76.4	92.0	28.0	61.0	65.7	490	58.4	54	"
"	3rd	76.5	93.2	32.3	60.9	64.0	510	51.7	47	"

The mean temperature of the seven days	...	...	76.1
The extreme variation of temperature	...	...	34.3
The maximum temperature	...	...	93.2
The mean relative humidity	...	...	62
The total fall of rain from 26th February to 3rd March 1888	...	...	Nil

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;

The 5th March 1888.

A. PEDLER,

For Offg. Meteorological Reporter to the Govt. of India.

MEMORANDUM.

THE following summary of results has been deduced from the annexed table exhibiting the vital statistics of the principal Municipalities in Bengal for the week ending 18th February 1888 :—

1. That births and deaths were registered in these Municipalities in the proportions per 1,000 of population of 21· and 23·2, respectively, as opposed to 18·4 and 21·9 per 1,000, respectively, in the preceding week ending 11th February, indicating an improvement in the registration of both.

2. That these events were recorded in the highest proportions by the following Municipalities :—

<i>Births.</i>			<i>Deaths.</i>		
		Ratio per mille.			Ratio per mille.
Bali	...	52·6	Bali	...	81·2
Darjiling	...	52·1	Suburbs of Calcutta	...	35·4
Narainganj	...	45·5	Gya	...	32·1
Comillah	...	42·3	Purneah	...	31·1
Arrah	...	31·7	Howrah	...	30·3
Midnapore	...	31·2	Serampore	...	29·4
Ranaghat	...	29·9	Beaulah	...	28·9
Monghyr	...	28·8			

3. That in comparison with the results of the preceding week, there was a sensible reduction in the death-rate from fever, no variation in fatality from injury, the fatal results from the other diseases exhibiting only fractional differences, and small-pox presenting no death; *vide* subjoined table :—

						Ratio per mille during the weeks ending—	
						18th Feb. 1888.	11th Feb. 1888.
Cholera	...	...	...	...	...	2·7	1·8
Small-pox	...	...	...	...	...	...	·03
Fever	...	...	...	...	...	9·1	10·1
Bowel-complaints	...	...	...	...	...	4·3	3·6
Injury	...	...	...	...	...	·2	·2
Other causes	...	...	...	...	...	6·9	6·1

4. That, referring to the diseases mentioned above, eliminating small-pox, from which, as before stated, no death was reported to have occurred, bowel-complaints and injury, the casualties from which were nowhere noticeably large, cholera, fever, and the maladies coming under the head of "Other causes" caused the greatest loss of life in the following Municipalities :—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Bali	52·6	Beaulah	23·6	Gya	16·4
Howrah	11·4	Purneah	20·8	Puri	12·6
Chittagong	9·4				
Suburbs of Calcutta	4·1				

5. That the mortality referable to *Sex*, *Class* and *Age*, stood as exhibited below :—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	21·0	Christians	...	21·7	Under 1 year	...	173·2
Females	...	22·3	Hindus	...	23·7	1 and under 5 years	...	24·6
Ratio of male deaths to every 100 female deaths	121		Mahomedans	...	22·3	5 " 10 "	...	13·5
						10 " 15 "	...	13·1
						15 " 20 "	...	14·6
						20 " 30 "	...	10·0
						30 " 40 "	...	15·9
						40 " 50 "	...	17·2
						50 " 60 "	...	28·4
						60 years and upwards	...	76·9

R. LIDDERDALE, M.D., Deputy Surgeon-General,
Sanitary Commissioner for Bengal.

The 3rd March 1888.

NAMES OF MUNICIPALITIES.		POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—												Ratio of male deaths to every 100 female deaths.	
		Males.		Total.	Males.		Total.	DEATHS FROM—						RATIOS PER 1,000 OF POPULATION FOR—							Deaths.
		Males.	Females.	Total.	Males.	Females.	Total.	Cholera.	Small-pox.	Pneumonia.	Other diseases.	Injury.	All causes.	Ratio of deaths per 1,000 of population in the previous week.	Males.	Females.	Ratio of male deaths to every 100 female deaths.				
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Cholera.	Small-pox.	Pneumonia.	Other diseases.	Injury.	All causes.	Ratio of deaths per 1,000 of population in the previous week.	Males.	Females.	Ratio of male deaths to every 100 female deaths.			
Bombay	18,067	14,017	32,084	4	6	10	61	92	153	66	1	13	...	...	...	214	5	8	114	68
Calcutta	16,977	13,693	30,670	11	9	20	170	139	310	122	3	10	...	...	...	232	3	4	134	125
Madras	19,178	15,519	34,697	1	4	5	13	54	87	25	1	17	...	...	...	271	10	7	251	142
Bombay	13,559	12,937	26,496	4	3	7	75	59	137	135	1	16	...	...	...	275	5	7	307	114
Bombay	5,046	2,464	7,510	...	2	2	...	189	159	No male births.	...	...	...	...	...	...	...	...	...	No female deaths.
Bombay	13,163	10,018	23,181	19	17	36	140	97	236	111	2	...	...	...	...	195	30	24	209	180
Bombay	7,850	6,970	14,820	6	0	15	210	112	63	63	3	21	...	...	...	217	15	6	113	490
Bombay	167,205	164,234	331,439	57	54	111	115	112	280	105	31	171	...	...	...	289	95	73	316	134
Bombay	13,293	14,314	27,607	8	7	15	151	132	284	114	2	12	...	...	...	132	4	8	137	50
Bombay	4,029	4,655	8,684	8	5	13	150	110	209	150	...	...	...	...	...	233	...	...	...	...
Bombay	13,768	13,078	26,846	3	1	4	53	17	70	230	...	...	...	...	...	159	4	1	102	400
Bombay	9,330	9,409	18,739	3	1	4	91	61	122	106	...	...	...	...	...	61	1	1	105	100
Bombay	10,768	9,628	20,396	8	8	16	70	70	140	10	...	...	...	...	...	250	3	8	145	37
Bombay	5,029	2,947	7,976	8	2	10	83	130	204	100	...	...	...	...	...	130	8	5	97	300
Bombay	42,782	37,379	80,161	9	9	18	59	59	117	102	...	...	...	...	...	214	11	5	114	117
Bombay	7,495	4,555	12,050	4	7	11	169	209	378	57	...	...	...	...	...	160	2	3	137	68
Bombay	13,340	8,790	22,130	5	4	9	117	94	211	125	...	...	...	...	...	185	8	3	214	309
Bombay	5,128	6,333	11,461	3	8	11	115	508	623	67	...	...	...	...	...	119	3	4	151	33
Bombay	7,572	21,475	29,047	24	21	45	78	63	141	114	...	...	...	...	...	124	26	21	172	124
Bombay	80,000	57,531	137,531	22	20	42	150	157	307	139	...	...	...	...	...	230	25	32	110	113
Bombay	20,650	22,535	43,185	15	14	29	170	167	337	107	...	...	...	...	...	251	2	8	100	75
Bombay	22,484	19,456	41,940	7	3	10	85	50	135	231	...	...	...	...	...	97	4	5	67	60
Bombay	78,174	32,322	110,496	15	11	26	115	156	271	71	...	...	...	...	...	212	9	17	110	...
Bombay	23,041	27,295	50,336	7	2	9	49	19	68	25	...	...	...	...	...	...	4	2	50	500
Bombay	25,440	27,513	52,953	17	12	29	154	100	254	111	...	...	...	...	...	190	15	7	252	137
Bombay	24,181	20,368	44,549	14	19	33	127	171	398	73	...	...	...	...	...	151	11	11	293	100
Bombay	8,463	6,533	15,000	2	...	2	69	...	69	No female births.	...	...	...	...	...	...	7	3	450	303
Bombay	13,147	11,537	24,684	1	6	7	21	156	147	16	...	...	...	...	...	108	4	5	196	17
TOTAL	702,890	619,031	1,321,921	259	256	515	150	164	314	101	...	...	...	...	...	319	321	306	233	171

A special census of the Europeans in the Calcutta Municipality was recently taken, as the census of this section of the community, taken in February 1891, was not reliable owing to the European being at a minimum in that month. The number of the natives registered as before, as it was not necessary to re-census them. The figures have consequently been calculated on the basis of the population under all heads in the above table, except "Age," the ratios under which have been omitted, inasmuch as the census of the Europeans were affected to cannot be employed as a basis of calculation owing to the results of the census under this head not having been recorded under the authorized form of age distribution.

[illegible]

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of January 1888.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupers.	Tons.	
411	1. Grain ...	3,709	633	4,342	1,45,978	4,342	1,45,978
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	14	.....	14	800	14	800
21	4. Salt ...	64	161	225	15,925	225	15,925
12	5. Piece-goods ...	.....	20	20	13,200	20	13,200
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
2	7. Building materials ...	.....	8	8	128	8	128
878	8. Miscellaneous ...	265	286	551	52,787	551	52,787
22	9. Fuel ...	.....	373	373	5,273	373	5,273
1 raft	10. Timber ...	56 c. ft.	.....	56 c. ft.	48	56 c. ft.	48
15 rafts	11. Bamboos ...	400 ..	450 c. ft.	850 ..	83	850 ..	83
1,347 & 16 rafts	12. Total ...	4,052 & 456 c. ft.	1,481 & 450 c. ft.	5,533 & 906 c. ft.	2,34,222	5,533 & 906 c. ft.	2,34,222
899 & 20 rafts	13. Total of same month last year	2,581 & 448 c. ft.	306 & 525 c. ft.	2,887 & 973 c. ft.	1,07,254	2,880 & 973 c. ft.	1,07,129
14. Total number of boats plying cargo ...	No.	674	673	1,347	Total tollage of month—24+25+26		Rs. A. P. 6,665 9 3
15. Total number of boats plying passenger ...	No.	58	56	114	Total tollage of same month last year		3,003 9 3
16. Total registered tonnage, cargo ...	Tons	8,755	5,391	14,146	Memorandum of Tollage.		
17. Total registered tonnage, passenger ...	Tons	825	671	1,496			
18. Ton mileage ...	...	227,518	151,881	379,399	Rs. A. P.		
19. Estimated value of cargo	Rs.	1,55,211	78,880	2,34,091			
20. Number of passengers	No.	2,112	1,003	3,115	1. Balance not recovered on the 1st of the month	5,614 15 0	
21. Rafts, bamboos ...	c. ft.	400	450	850	2. Tollage per month	6,665 9 3	
22. Do., bullocks ...	"	56	.....	56	3. Total	12,280 8 3	
23. Estimated value of rafts	Rs.	78	53	131	4. Amount paid into treasury during the month	6,879 7 9	
24. Tollage on boats	"	3,550-4-3	2,274-5-3	5,824-9-6	5. Balance due at the end of the month	5,401 0 6	
25. Compounded tollage on boats	Rs.	433-10-9	403-11-0	837-5-9			
26. Tollage on rafts	"	2-2-0	1-8-0	3-10-0			
27. Total tollage on boats per ton mile	Pie.	.....	.....	2-9-1			
28. Total tollage on rafts per 100 cubic feet	lt.	.....	.....	0-6-4			

Abstract for the month of January 1888 as compared with the corresponding month of the previous year.

	1887-88.		1886-87.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	6,665 9 3	41,877 3 0	3,003 9 3	19,817 3 6

CALCUTTA,
7th March 1888.A. D. MCARTHUR, Major, R.E.
Under-Secretary to the Government of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate return of traffic for the week ending Saturday, the 3rd March 1888,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 3RD MARCH 1888.			WEEK ENDING SATURDAY, THE 6TH MARCH 1887.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	2,101	4,70,150	8,950	1,380	3,53,951	6,251
Jute	106	45,125	986	78	56,479	1,060
Firewood	227	1,11,015	1,877	173	1,35,637	1,862
Other articles	1,161	2,79,140	4,500	1,118	3,00,465	4,588
Total	3,595	9,05,730	16,222	2,749	8,46,512	13,761

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888. on 1,513¹/₂ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. B.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	266,540	3,11,325 5 0	29,14,361 0	7,08,031 15 3	20,803 8 4	10,10,829 12 7	66,11 1/2	110,718 1/2	177,131 1/2
Or per mile of railway ...	...	205 11 0	...	468 1 10	13 12 6	687 3 4	...	...	...
For previous 7 weeks of half-year ...	1,806,314	22,31,423 2 0	1,06,65,426 30	47,12,130 3 0	1,47,318 10 0	70,93,881 15 0	463,152 1/2	751,073 1/2	1,209,100 1/2
Total for 8 weeks ...	2,156,454	25,42,746 7 0	2,25,79,787 30	51,20,712 3 0	1,68,182 2 4	81,94,712 12 1	509,560	862,691 1/2	1,369,331 1/2
COMPARISON.									
Total for corresponding week of previous year ...	286,740	3,10,402 7 0	26,95,418 20	7,05,360 5 0	17,715 0 1	10,35,477 12 1	67,000	111,100	178,200
Per mile of railway corresponding week of previous year ...	...	204 14 2	...	465 0 4	11 11 1	682 2 7	...	...	...
Total to corresponding date of previous year ...	2,006,133	23,73,654 0 8	2,32,03,063 10	54,44,563 2 4	1,56,601 8 0	70,09,008 11 0	517,073	886,000	1,403,119

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 25TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
1,513	10,53,478	692	1,513 ¹ / ₂	10,40,831	688	1,515	4,25,47,088	563	1,516 ¹ / ₂	4,16,97,457	684	...	6,40,560

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888, on 57¹/₂ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. B.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,043	8,004 8 0	26,024 20	1,955 8 0	50 12 0	9,080 7 0	1,834	600	2,304
Or per mile of railway ...	261	131 8 1	446 10	32 1 3	9 11 3	174 7 9	...	...	...
For previous 7 weeks of half-year ...	93,795	51,453 14 0	2,40,586 0	15,141 0 0	253 0 0	67,047 14 0	72,822	4,164	10,632
Total for 8 weeks ...	108,737	59,714 1 0	2,66,610 20	16,976 8 0	303 12 0	77,028 5 0	74,656	4,764	10,680
COMPARISON.									
Total for corresponding week of previous year ...	14,443	7,887 13 11	27,738 10	3,641 10 3	50 8 8	11,580 0 5	1,834	1,227	2,911
Per mile of railway corresponding week of previous year ...	252	137 14 5	1,531 10	63 10 8	0 14 1	202 7 2	...	...	...
Total to corresponding date of previous year ...	106,877	57,368 6 0	4,10,123 10	25,419 13 3	465 0 0	85,244 2 0	11,032	6,960	20,502

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 20TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 25TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
57 ¹ / ₂	11,000	208	57 ¹ / ₂	9,980	174	57 ¹ / ₂	4,85,044	181	57 ¹ / ₂	4,56,000	170	...	29,768

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	2,939	493 7 0	25,891 0	67 8 0	9 8 0	1,185 8 0	312	151	463
Or per mile of railway	.....	40 8 7	.....	55 12 9	0 12 8	97 2 0	.....	.....	.....
For previous 7 weeks of half-year	21,553	3,790 10 0	1,53,517 20	2,908 1 0	72 11 0	4,581 0 0	2,373	1,081	3,454
Total for 8 weeks	24,492	4,283 7 0	1,79,408 20	3,577 10 0	82 3 0	7,940 14 0	2,710	1,232	3,942
COMPARISON.									
Total for corresponding week of previous year	3,817	555 31 2	26,068 0	704 5 0	11 11	1,271 11 2	150	137	408
Per mile of railway corresponding week of previous year	.....	46 4 11	.....	58 11 1	0 16 7	105 15 7	.....	.....	.....
Total to corresponding date of previous year	21,420	4,001 1 7	1,70,512 30	4,411 11 0	48 15 3	8,521 16 10	2,780	1,330	4,110

Approximate Statement of gross receipts of the Dildarnagar-Ghaziipur State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 25th FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25th FEBRUARY 1888.			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 25th FEBRUARY 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 25th FEBRUARY 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
12	1,272	106	12	1,108	97	12	43,002	76	12	48,375	77	.....	517

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888, on 74½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	5,633	4,593 9 4	90,791 10	5,353 12 0	132 0 0	10,038 0 0	656	2,170	2,774
Or per mile of railway	.....	61 8 7	.....	71 9 2	1 8 0	134 7 9	.....	.....	.....
For previous 7 weeks of half-year	33,038	25,303 14 0	6,14,464 6	30,678 7 0	746 6 0	56,700 11 0	4,004	10,908	14,912
Total for 8 weeks	39,271	29,827 7 0	7,14,255 10	36,032 3 0	878 6 0	66,700 0 0	5,200	12,085	17,285
COMPARISON.									
Total for corresponding week of previous year	6,056	4,318 2 5	1,44,000 20	4,302 1 0	100 14 6	8,291 1 11	720	1,327	1,077
Per mile of railway corresponding week of previous year	.....	58 2 0	.....	58 10 0	1 5 7	123 8 7	.....	.....	.....
Total to corresponding date of previous year	40,150	31,030 19 10	8,00,315 30	44,064 18 11	785 11 9	79,771 8 7	5,181	10,212	15,393

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 25th FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25th FEBRUARY 1888.			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 25th FEBRUARY 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 25th FEBRUARY 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
74½	11,211	123	74½	10,030	134	74½	2,64,066	100	74½	4,01,371	114	36,007	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	20,474	5,195 11 0	10,932 0	358 4 0	4 0 0	5,548 15 0	890	78	968
Or per mile of railway ...	233 1 8	233 1 8	.....	16 1 7	0 2 1	249 6 3	.....	.....	.....
For previous 7 weeks of half-year ...	1,46,789	37,484 15 0	57,937 0	1,918 1 0	40 0 0	39,445 0 0	6,356	552	6,908
Total for 8 weeks ...	1,66,363	42,679 10 0	68,869 0	2,276 5 0	44 0 0	41,994 8 0	7,246	630	7,876
COMPARISON.									
Total for corresponding week of previous year ...	31,7351	8,951 13 1	10,992 10	381 1 0	9 11 2	9,342 9 10	1,043	67	1,110
Per mile of railway corresponding week of previous year ...	.....	367 13 4	.....	17 2 0	0 7 0	415 0 4	.....	.....	.....
Total to corresponding date of previous year ...	1,63,110	42,138 1 7	66,543 30	2,071 2 0	52 0 8	44,261 12 10	7,840	300	8,200

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 30TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 15TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1880 TO 30TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
22½	Rs. 0,243	Rs. 415	22½	Rs. 5,540	Rs. 240	22½	Rs. 2,50,005	Rs. 211	22½	Rs. 2,33,182	Rs. 228	Rs. 17,218	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B. Dacca, K. and D., and Assam-Bihar Sections).

Approximate Return of Traffic for week ended 18th February 1888, on 676 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including Steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	121,822	60,578 0 0	5,18,578 0	94,261 0 0	13,617 0 0	1,72,851 0 0	23,000	21,400	44,400
Or per mile of railway ...	190	103 0 0	747 0	181 0 0	2 0 0†	259 0 0	.....	.....	.....
For previous 6 weeks of half-year ...	743,667	4,19,232 0 0	31,86,391 0	5,97,948 0 0	86,907 0 0	11,04,018 0 0	151,061	132,703	283,764
Total for 7 weeks ...	865,489	4,80,810 0 0	37,04,879 0	6,38,210 0 0	90,524 0 0	12,70,872 0 0	174,061	154,103	328,164
COMPARISON.									
Total for corresponding week of previous year ...	150,662*	70,407 0 0	5,07,093 0	80,807 0 0	13,218 0 0	1,70,432 0 0	20,578	22,041	42,619
Or mile of railway corresponding period of previous year ...	168	131 0 0	837 0	143 0 0	3 0 0†	277 0 0	.....	.....	.....
Total to corresponding date of previous year ...	874,190	4,81,251 0 0	38,60,545 0	6,34,630 0 0	89,504 0 0	11,98,091 0 0	180,772	154,047	334,779

* Due to Jubilee.

† Excluding steamers' earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 12TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 12TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1880 TO 12TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 12TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
200	Rs. 1,70,400	Rs. 200	200	Rs. 1,72,854	Rs. 250	200	Rs. 74,93,181	Rs. 240	200	Rs. 85,65,337*	Rs. 280	Rs. 10,72,156	.....

* Audited up to 14th December 1887.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 25th February 1888 on 676 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including Steam-haul.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	127,912	79,413 0 0	9,01,931 0	1,00,551 0 0	25,603 0 0	2,08,747 0 0	22,780	25,139	47,919
Or per mile of railway ...	189	117 0 0	1,466 0	155 0 0	10 0 0*	285 0 0	...	...	...
For previous 7 weeks of half-year ...	865,480	4,59,838 0 0	37,04,879 0	6,88,210 0 0	99,924 0 0	12,76,872 0 0	174,064	183,708	357,767
Total for 8 weeks ...	993,392	5,08,251 0 0	46,06,810 0	7,91,761 0 0	1,22,627 0 0	14,85,639 0 0	176,844	179,847	356,691
COMPARISON.									
Total for corresponding week of previous year ...	136,114	76,353 0 0	10,46,207 0	10,584 0 0	15,180 0 0	1,04,233 0 0	12,925	22,210	42,014
Per mile of railway corresponding period of previous year ...	223	136 0 0	1,726 0	164 0 0	7 0 0*	297 0 0	...	...	...
Total to corresponding date of previous year ...	1,110,304	5,40,701 0 0	49,14,752 0	7,34,120 0 0	1,07,490 0 0	13,82,314 0 0	160,017	177,206	336,623

* Excluding Steam-haul earnings.

FINANCIAL YEAR.

Approximate Statement of Gross Receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 25TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
608	Rs. 1,04,233	Rs. 320	676	Rs. 2,08,747	Rs. 309	608	Rs. 76,87,384	Rs. 270	646	Rs. 97,84,170	Rs. 280	Rs. 10,06,786	...

* Audited up to 31st December 1887.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 18th February 1888, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,325	9,804 0 0	53,804 0	2,140 0 0	60 0 0	14,084 0 0	3,801	1,703	5,504
Or per mile of railway ...	187	71 0 0	430 0	41 0 0	1 0 0	113 0 0	...	...	...
For previous 6 weeks of half-year ...	141,748	62,027 0 0	2,06,871 0	24,847 0 0	350 0 0	77,204 0 0	21,004	10,248	31,252
Total for 7 weeks ...	165,073	60,921 0 0	2,20,675 0	26,987 0 0	340 0 0	81,358 0 0	24,805	11,951	36,756
COMPARISON.									
Total for corresponding week of previous year ...	27,933*	10,022 0 0	36,470 0	2,022 0 0	82 0 0	12,733 0 0	3,739	1,703	5,442
Per mile of railway corresponding period of previous year ...	223	80 0 0	294 0	21 0 0	1 0 0	102 0 0	...	...	...
Total to corresponding date of previous year ...	188,003	62,779 0 0	1,08,750 0	12,748 0 0	380 0 0	75,907 0 0	26,033	11,439	37,472

* Due to Jubilee.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 10TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 18TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 18TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 18TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
125	Rs. 12,733	Rs. 102	125	Rs. 14,084	Rs. 113	125	Rs. 4,04,867	Rs. 88	125	Rs. 4,06,021*	Rs. 109	Rs. 81,654	...

* Audited up to week ending 24th December 1887.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,221	9,614 0 0	61,084 0	4,900 0 0	53 0 0	14,627 0 0	3,361	1,909	5,270
Or per mile of railway ...	202	77 0 0	495 0	40 0 0	.....	117 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	165,031	60,921 0 0	3,20,975 0	23,397 0 0	390 0 0	91,288 0 0	21,505	11,905	33,410
Total for 8 weeks ...	190,252	70,535 0 0	3,71,761 0	34,147 0 0	433 0 0	1,05,015 0 0	27,866	13,814	41,680
COMPARISON.									
Total for corresponding week of previous year ...	*31,089	*11,140 0 0	35,408 0	2,613 0 0	61 0 0	13,817 0 0	3,189	1,721	4,910
Per mile of railway corresponding period of previous year ...	256	89 0 0	283 0	21 0 0	1 0 0	111 0 0	.....	.....	.....
Total to corresponding date of previous year ...	260,081	75,919 0 0	2,51,153 0	15,351 0 0	444 0 0	89,724 0 0	23,522	13,160	36,682

* Includes 7,610 suburban tickets and baggage of mails for 2 months.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 26TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 26TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	13,817	111	125	14,627	117	125	6,18,714	89	125	*5,90,926	102	31,212	.....

* Audited up to week ending 31st December 1887.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 18th February 1888, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,473	4,092 0 0	8,646 0	1,220 0 0	30 0 0	5,351 0 0	2,141	963	3,104
Or per mile of railway ...	146	48 0 0	101 0	14 0 0	.....	62 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	82,344	32,170 0 0	1,13,977 0	10,681 0 0	296 0 0	42,953 0 0	12,596	6,620	17,984
Total for 7 weeks ...	94,817	36,268 0 0	1,27,623 0	11,710 0 0	326 0 0	48,304 0 0	14,496	6,593	21,089
COMPARISON.									
Total for corresponding week of previous year ...	13,680	4,611 0 0	18,170 0	2,123 0 0	451 0 0	7,085 0 0	2,076	934	3,010
Per mile of railway corresponding period of previous year ...	158	52 0 0	211 0	25 0 0	5 0 0	82 0 0	.....	.....	.....
Total to corresponding date of previous year ...	80,336	31,915 0 0	1,51,031 0	14,700 0 0	1,513 0 0	48,169 0 0	14,675	6,615	21,290

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 19TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 18TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 19TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 18TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,085	82	86	5,301	62	86	2,45,433	62	86	*2,74,070*	69	30,638	.....

* Audited up to week ending 24th December 1887.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th February 1888, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,718	5,428 0 0	27,391 0	2,044 0 0	232 0 0	7,704 0 0	2,187	963	3,150
Or per mile of railway ...	171	63 0 0	319 0	24 0 0	3 0 0	90 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	94,817	36,338 0 0	1,27,623 0	11,710 0 0	325 0 0	48,304 0 0	14,436	6,592	21,028
Total for 8 weeks ...	109,535	41,866 0 0	1,55,014 0	13,754 0 0	557 0 0	56,008 0 0	16,623	7,553	24,176
COMPARISONS.									
Total for corresponding week of previous year ...	12,574	4,627 0 0	67,809 0	2,717 0 0	379 0 0	7,623 0 0	2,173	837	3,010
For mile of railway corresponding period of previous year ...	146	53 0 0	611 0	32 0 0	4 0 0	90 0 0	.....	.....	.....
Total to corresponding date of previous year ...	101,950	36,142 0 0	2,04,130 0	17,426 0 0	1,924 0 0	55,792 0 0	17,048	10,382	27,430

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 25th FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25th FEBRUARY 1888.			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 25th FEBRUARY 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 25th FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
68	7,623	89	68	7,704	90	68	2,51,103	62	68	2,42,330*	70	31,276	.....

* Audited up to week ending 31st December 1887.

ASSAM-BEHAR STATE RAILWAY.

(PUERNAH SECTION.)

Approximate Return of Traffic for week ended 18th February 1888, on 39 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,627	868 0 0	23,695 0	2,596 0 0	28 0 0	3,473 0 0	540	546	1,086
Or per mile of railway ...	67	22 0 0	608 0	67 0 0	.....	90 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	18,640	6,774 0 0	1,94,714 0	9,929 0 0	83 0 0	16,796 0 0	3,276	3,376	6,652
Total for 7 weeks ...	21,267	7,642 0 0	1,28,409 0	12,525 0 0	103 0 0	20,200 0 0	3,822	3,922	7,744
COMPARISONS.									
Total for corresponding week of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
For mile of railway corresponding period of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total to corresponding date of previous year ...	.....	.....	.....	.....	.....	.....	.....	.....	.....

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Bihar State Railway.

RECEIPTS FOR WEEK ENDING 19th FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 18th FEBRUARY 1888.			TOTAL RECEIPTS FROM 1st APRIL 1886 TO 18th FEBRUARY 1887.			TOTAL RECEIPTS FROM 1st APRIL 1887 TO 18th FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
.....	.....	.....	39	3,478	89	.....	.....	.....	39	1,07,820*	80	1,07,820	.....

* Audited up to week ending 24th December 1887.

ASSAM-BEHAR STATE RAILWAY.

POURNAH SECTION.

Approximate Return of Traffic for week ended 25th February 1888, on 39 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	8,026	984 0 0	32,101 0	2,849 0 0	15 0 0	3,982 0 0	516	640	1,056
Or per mile of railway	78	25 0 0	825 0	73 0 0	1 0 0	102 4 0	.....	.....	.....
For previous 7 weeks of half-year	21,387	7,640 0 0	1,28,600 0	12,523 0 0	103 0 0	20,200 0 0	1,822	5,302	7,044
Total for 8 weeks	21,206	9,028 0 0	1,40,600 0	15,382 0 0	118 0 0	24,182 0 0	4,560	5,942	10,502
COMPARISON.									
Total for corresponding week of previous year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per mile of railway corresponding week of previous year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total to corresponding date of previous year	.....	.....	.....	.....	.....	.....	.....	.....	.....

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Assam-Bihar State Railway.

RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 25TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
.....	30	3,803	126	.....	.....	.....	30	1,11,256*	3708	1,11,256	.....

* Audited up to week ending 31st December 1887.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 25th February 1888, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,146	1,286 2 0	10,240 20	1,016 8 0	20 12 10	2,322 6 10	500	251	753
Or per mile of railway	116	45 12 0	701 0	37 5 0	0 12 0	85 13 0	.....	.....	.....
For previous 7 weeks of half-year	23,856	8,352 14 0	1,30,512 20	6,200 8 0	248 3 2	14,801 0 2	3,563	1,202½	4,765½
Total for 8 weeks	26,004	9,599 0 0	1,40,752 0	7,217 0 0	268 0 0	17,045 0 0	4,072	3,404½	7,476½
COMPARISON.									
Total for corresponding week of previous year	4,364½	1,470 2 9	16,108 30	674 0 0	0 0 0	2,322 11 0	509	472	981
Per mile of railway corresponding week of previous year	160	53 16 0	584 0	33 1 0	0 0 0	86 0 0	.....	.....	.....
Total to corresponding date of previous year	25,141½	9,258 16 4	1,16,027 20	5,331 5 0	143 2 6	15,800 6 10	4,114	2,934½	6,978½

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 25TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
.....
30½	2,813	92	27½	2,883	104	27½	78,318	61	27½	88,231	127	6,913	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 25th February 1888, on 259 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week on 259 miles open	43,630	Rs. A. P. 15,982 5 0	Mds. B. 2,15,343 0	Rs. A. P. 22,117 11 0	Rs. A. P. 4,404 14 0	Rs. A. P. 42,504 11 0	5,754	9,180	14,934
Or per mile of railway	168	51 11 0	831 0	85 6 0	17 2 0	159 3 0*	.....	.....	.....
For previous 7 weeks of half-year	301,002	1,10,994 10 3	11,11,225 0	1,44,743 6 0	27,530 2 0	2,01,397 1 3	47,822	58,933	106,755
Total for 8 weeks	344,632	1,26,977 0 0	12,26,568 0	1,66,861 0 0	31,034 0 0	3,31,174 0 0	53,576	68,113	121,689
COMPARISON.									
Total for corresponding week of previous year on 246 miles open	51,436	14,517 11 2	2,04,540 0	21,456 3 0	2,068 8 5	38,549 6 7	6,327	7,585	13,912
Per mile of railway corresponding week of previous year	140	59 0 0	840 0	87 4 0	1 4 0	157 8 0*	.....	.....	.....
Total to corresponding date of previous year	310,720	1,27,467 15 3	12,61,618 10	1,25,648 7 0	24,211 4 10	2,76,878 11 1	45,767	43,271	89,038

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1887.			RECEIPTS FOR WEEK ENDING 25TH FEBRUARY 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 25TH FEBRUARY 1888.			Total increase to 1887-88.	Total decrease to 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	.....
146	Rs. 38,440	157	259	Rs. 42,608	164	246	Rs. 14,35,416	135	251*80	Rs. 10,38,806	139	Rs. 1,00,418	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 18th February 1888	...	...	7,410
Corresponding week last year	...	...	5,360
Increase	...	...	2,050
Receipts from 1st January to 18th February 1888	...	...	43,336
From 1st January to 19th February 1887	...	...	38,435
Increase	...	...	4,901
Miles open, week ending 18th February 1888	...	...	Miles. 51
Corresponding week last year	...	...	51
Receipts per mile open, week ending 18th February 1888	...	...	Rs. A. P. 146 7 2
Corresponding week last year	...	...	105 3 5
Increase	...	...	40 3 9

KLING, the 28th February 1888.

H. BRICK, Acting Secretary, D.H. Ry.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MARCH 14, 1888

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

The Council met at the Council Chamber on Saturday, the 10th March 1888,
at 1 P.M.

Saturday, the 10th March 1888.

Present:

The HON. G. C. PAUL, C.M.E., Advocate-General, *Presiding*.
 The HON. H. J. REYNOLDS, C.S.I.
 The HON. C. P. L. MACAULAY, C.I.E.
 The HON. T. T. ALLEN.
 The HON. SIR HENRY HARRISON, K.T.
 The HON. SIR ALFRED GROVE, K.C.I.E.
 The HON. MOULVIE ABDUL JUBBAR.
 The HON. G. IRVING.
 The HON. BABU KALI NATH MITTER.
 The HON. DR. MAHENDRA LAL SIRCAR, C.I.E.
 The HON. C. H. MOORE.
 The HON. DR. GOOROO DAS BANERJEE.

CALCUTTA AND SUBURBAN MUNICIPALITIES AMALGAMATION BILL.

THE HON. SIR HENRY HARRISON presented the final Report of the Select Committee on the Bill to consolidate and amend the law relating to the municipal affairs of the Town and Suburbs of Calcutta. He said:—In presenting this report, I owe it to the Committee to state that they have devoted much care and time to the consideration of the many suggestions with which they have been favoured by the several Associations and other Public Bodies who reported on the Bill. We wished we could have presented this report at an earlier period, in order that the public might have had a longer time to consider it before it must be taken up again by the Council. But the time which we have taken to give adequate consideration to all the material points laid before us has been such that, though we have made every speed consistent with due care, we have not been able to complete our work at an earlier date. As regards the report itself and the Bill which accompanies it, I may perhaps be permitted to let them speak for themselves. It will suffice to say that the main alterations we have made are connected with the system of levying the rates with the water-supply, and above all with the building regulations. I may observe that the whole of these come, if not in the latter part of the Bill, at least towards the middle of it, and therefore if the Bill is taken into consideration, say three weeks from the present time, it should not be inferred that only three weeks are therefore allowed for the consideration of the most important changes in the Bill. The earlier chapters of the Bill have been very little altered indeed, and substantially these have been before the public for the whole space of a year. Consequently, before we reach in Council those portions of the Bill in which material changes have been made, a considerably longer period will have elapsed. With these remarks I ask the Council to accept the Report.

The HON. SIR HENRY HARRISON then moved that the Bill as further amended, with the final Report of the Select Committee thereon, be published in the *Calcutta Gazette*.

The HON. BABOO KALLY NATH MITTER moved that the words "for at least six weeks" be added to the motion.

The HON. THE PRESIDENT said:—The motion before the Council is to publish the Report of the Select Committee and the Amended Bill. No time is fixed. The Hon. Member can bring forward his proposal as a separate motion if he thinks fit.

The HON. SIR HENRY HARRISON's motion was put and agreed to.

The HON. BABOO KALLY NATH MITTER then moved that the Bill be published for at least six weeks. He said the changes which have been made in the Bill are so numerous and so important that it is absolutely necessary that the public should be afforded a reasonable time to consider them before the Bill is taken into consideration by the Council, and I think six weeks is a reasonable time to give for the purpose. Anything short of that would be too little. Not having been furnished with a copy of the Bill as altered by the Select Committee, it is impossible for me to point out the various and numerous changes made in the Bill. Besides, as far as I am concerned, the Bill has now been presented in a form which is far more objectionable than what it was when last reported upon. Many of the alterations which have been made are such that I am entirely opposed to them, and knowing, as has been hinted, that the people of Calcutta intend to hold a public meeting to consider the provisions of the Bill, I think it is better that they should be afforded an opportunity of submitting their representations, so that, before the Bill is taken into consideration by the Committee, we should have the views of the public put before us in an intelligent and proper manner.

The HON. MR. MACAULAY said:—I submit it is quite unnecessary to give such a long period for the consideration of this Report and Bill. The Select Committee, sitting about twice a week, have taken only three months to

consider and report upon the Bill in detail, yet the hon. member asks that one-half of that period may be given to enable the public to make up their minds on the Bill, and to submit their views in an intelligent and proper manner. I am far from underrating the value of intelligent public discussion; but I venture to think that opinions of any value can easily be laid before the Council within the period of three weeks for which, I understand, my hon. friend who is presiding proposes to adjourn the Council. I think that to give an interval of six weeks will be simply to suggest an increase of the delay which has already formed the subject of public criticism. We have nothing to gain by it, and it will only obstruct the course of legislation.

The HON. SIR HENRY HARRISON said :—My own view of this matter, as the Member in charge of the Bill, is that, if we had an unlimited time at our disposal, I should be glad if the six weeks which have been asked for could be given; but the function of a reasonable person is to balance considerations on opposite sides. What we have to consider is what will be the effect of giving six weeks' time before commencing to consider the first section of the Bill in Council. Six weeks will bring us to the end of April. We have not only to consider what time we should give the public, but also what would be reserved for the Council. Suppose the legislative session to be carried on even into July, we shall deprive ourselves of a very considerable portion of the time before us if we postpone all action for six weeks. Now, as I mentioned in my former remarks, the parts of the Bill which come first are precisely those parts which have been before the public for a whole year. I do not think any change of any importance at all comes before section 100 of the Bill. On reference to the report of the Committee, I find that the first of the important changes comes in section 99. I cannot call the sections relating to petroleum an important change, though it may be an important question: the proposal has been before the public for a very long time. We have therefore before us some weeks of important discussions regarding the constitution of the Town Council and various other matters which have been untouched by the Committee; and during the time we discuss these matters, the public will have an opportunity of expressing an opinion on the important alterations in the Bill. So that, looking from both points of view, the time left to the Council, as well the convenience of the public, I am bound to say I think we shall consult the convenience of both parties if we allow a period of three weeks before commencing to discuss the Bill in Council. I feel pretty confident that we shall hardly reach the new portions of the Bill under six weeks. For these reasons I think it will be a pity if we wait for a longer time than three weeks before we begin to consider the Bill in Council.

The HON. BABOO KALLY NATH MITTER said :—I find that the first section of the Bill which has undergone considerable change is section 37—the very first section which will come up for discussion. The duties of the Corporation are enumerated in that section, and those duties were numbered in the Bill as before amended from Nos. 1 to 5, but now clauses (a) to (k) have been added to those duties. This of itself may not be of much concern, but under the very next section a power of control has been given to the Local Government in reference to the performance by the Commissioners of any of the duties enumerated in section 37. I am not prepared at present to say whether there are any other important changes in the early sections of the Bill; but it seems to me that this is hastening unduly the consideration of the measure. The Hon. Mr. Macaulay has complained of the delay which has taken place in Select Committee, but who was responsible for such delay? [The Hon. Mr. Macaulay :—“My hon. friend is under a misapprehension. I made no complaint of delay, and I made no reference to any delay on the part of the Select Committee. I said that the Bill had already been for two years before the Council, and yet you want to give six weeks more for public critics to give their opinion upon it in what you describe as an intelligent and proper manner. I did not say that there had been any unnecessary delay, but I said that the delay which had taken place had been made the subject of public criticism.”] The delay had been brought about by the important changes which had been suggested by the Hon. Member in charge of the Bill, and therefore, as far as the Committee is concerned, they

were not responsible for the delay. I do not see why the public should not have a reasonable time to consider the important alterations made in the Bill which affect their interest.

The HON. THE PRESIDENT said:—Before putting the motion, I should like to say a few words on the subject. This Council would as a matter of course on all occasions regard public convenience; but the question is whether convenience in respect of other matters should not also be taken into consideration. The question is whether the proposal is a reasonable one. Now, when we come to consider the fact pointed out by the Hon. Mr. Macaulay that the task of preparing this report has taken three months, I apprehend the request to have six weeks time to consider the work which has been done by the Committee in three months seems relatively a long period of time. Nor can I believe the public to be altogether ignorant of the main provisions of the Bill. From my own experience I have found that when any important subjects are made public we have within a week in the public prints criticisms of every description. I cannot therefore help thinking six weeks an unreasonable time to ask, and I have no doubt that two or three weeks will be more than sufficient, especially when it is remembered, as observed by the Hon. Member in charge of the Bill, that many portions of it are taken from the old Bill with some amendments, but containing no new principle. All these portions of the Bill may be considered in Council while the public are discussing the effect of the radical changes which have been made, and there will be ample time for the public to submit all their representations to the Council. Bearing in mind that the Bill has been before the public for a long time, I am opposed to the extension of time for the publication of the Bill to six weeks.

The HON. BABOO KALLY NATH MITTER's motion was then put and negatived.

The Council was adjourned for three weeks.

WORKS OF PUBLIC UTILITY CONSTRUCTED IN 1886.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Miscellaneous Public Improvements.

No. 2202 M.P.I., dated Calcutta, the 17th December 1887.

READ—

Statement of works of public utility constructed by private individuals in the several districts of Bengal during the year 1886.

Read again—

Statement of similar works constructed during 1885 and the Resolution thereon.

REMARKS.—The following works of public utility were constructed by private individuals in 1886:—

			Number of works.	Cost.		
				Rs.	A.	P.
Public Buildings...	...	...	9	18,290	0	0
Roads	...	...	7	3,185	13	3
Bridges	...	...	4	8,200	0	0
Embankments or bunds	...	...	103	6,137	8	0
Ghats	...	...	3	3,800	0	6
Tanks	...	...	293	2,03,240	5	■
Wells	...	...	80	19,090	0	0
Miscellaneous	...	...	4	3,840	0	0
Petty works	...	...	.....	60,499	9	6

2. The total number of works costing more than Rs. 200 each, which were constructed during the year under review, and the amounts contributed, including donations for petty works, as compared with those of the previous two years, are shown below:—

YEAR.		Number of works costing between Rs. 200 and Rs. 500 each.	Number of works costing more than Rs. 500 each.	Total number of works costing Rs. 200 and upwards each.	Total expenditure on works costing Rs. 200 and upwards each.	Add cost of petty works under Rs. 200.	Total contribution.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
1884	...	345	217	562	4,21,326 0 0	50,519 0 0	5,11,855
1885	...	434	162	596	3,85,484 0 0	92,000 0 0	4,78,484 0 0
1886	...	381	122	503	2,65,823 10 0	60,499 9 6	3,26,323 3 6

3. The number of works costing over Rs. 200 each carried out in the different districts, and the amounts contributed for their construction, are given in the following statement:—

Name of district.	Number of works.	Total cost.
		Rs. A. P.
Burdwan	4	2,325 0 0
Bankoora	3	1,900 0 0
Beerbhoom	5	2,600 0 0
Midnapore	20	8,187 0 0
Hooghly	3	2,100 0 0
Howrah	.....	.....
24-Pergunnahs	2	1,950 0 0
Nudden	13	11,130 0 0
Jessore	4	3,800 0 0
Moorshedabad	.....	.....
Khoolna	.....	3,850 0 ■
Dinagore	3	6,200 0 0
Rajshahye	34	21,642 0 0
Pubna	7	14,100 0 0
Bogra	12	12,982 5 0
Bungpore	6	3,130 0 0
Julpigoree	3	3,150 0 0
Darjeeling	.....	.....
Dacca	.....	.....
Furzedpore	8	6,325 0 ■

Name of district.	Number of works.	Total cost.		
		Rs.	A.	P.
Backergunge	12	4,400	0	0
Mymensingh	35	14,040	0	0
Chittagong	9	3,770	0	0
Tipperah	5	16,050	0	0
Noakholly	17	5,600	0	0
Chittagong Hill Tracts	.....	.....	.....	.....
Patna	2	500	0	0
Gya	8	1,300	0	0
Shahabad	14	5,295	0	0
Mozufferpore	12	12,761	0	0
Durbhunga	19	12,210	0	0
Saran	22	21,576	0	0
Chumparun	10	23,010	0	0
Monghyr	23	6,500	0	0
Bhagulpore	12	5,790	0	0
Purneah	6	2,250	0	0
Maldah	8	5,975	0	0
Sonthal Pergunnahs	126	9,683	5	3
Hazaribagh	.....	.....	.....	.....
Lohardugga	.....	.....	.....	.....
Manbhoom	2	800	0	0
Singbhoom	2	600	0	0
Cuttack	8	2,095	0	0
Poorce	2	400	0	0
Balasore	10	5,147	0	0

4. Taking them according to the classification adopted in paragraph 1, the following works are specially noted :—

Public buildings.—The total of Rs. 18,290 under this head includes the contributions of Baboo Banamali Roy who gave Rs. 7,560 for the Rivers Thompson Town Hall in the town of Pubna, and Rs. 2,000 for additions to the Serajgunge Higher Class English School; Abdus Soban Chowdhuri contributed Rs. 5,000 for a library in the town of Bogra; and Srimati Saroda Soondari Dasi paid Rs. 1,097 for a charitable dispensary at Nahadwip.

Roads.—The sum of Rs. 3,185-13-3 contributed under this head is made up of small amounts.

Bridges.—Under this head Rs. 8,200 were contributed. Of this amount His Highness the Maharajah of Cooch Behar gave Rs. 2,500 for the repairs to the bridges on the central Emigration Road in the district of Julpigorce, and Baboo Sri-kissen Agarhari, Rs. 5,200 for the construction of a bridge at Gurhia in the Mozufferpore district.

Embankments or bunds.—The sum of Rs. 6,137-8, appears under this head. The ghatwals and ryots of Saruth Deoghur spent Rs. 4,244 on the construction of 21 new bunds and the repairs of 20 existing ones in the sub-division of Deoghur, and Mr. W. M. Grant made a bund at Bhaski in the Sonthal Pergunnahs district at a cost of Rs. 1,618.

Ghats.—Of the sum of Rs. 3,800 subscribed under this head, Nawab Khaja Ahsunollah of Dacca gave Rs. 2,000 for a ghât on the river Titas, in the station of Muradnagar. Baboos Baroda Kanta Roy, Brojo Kanta Roy and others gave Rs. 1,000 for a masonry ghât at Patnakhali.

Tanks.—Rs. 2,03,280 were spent in constructing tanks. The widow of Saligram Sahai gave Rs. 16,351; Srimati Jasada Chowdhurany Rs. 13,000; Baboo Lali Ram Marwari Rs. 9,000. Baboo Harangi Missir Rs. 8,000; Rajah Krishnendra Roy of Balihar, Rajshahyo, Rs. 5,000; Baboo Gopal Sahu Kalwar Rs. 4,000; Baboo Lachmi Pershad Rs. 3,000; Baboo Iswar Chunder Dass Rs. 2,300; and Musamut Golat Komar Rs. 2,231. Baboos Taraprosad Chatterjee, Boyanuddin Sarkar, Thakur Das Pal, Rajendra Chandra Roy Chowdhuri, Upendra Nath Kundu, Bhukha Sahu Teli, gave Rs. 1,500 each. Baboo Thakur Banis

Rs. 1,400, and the ghatwals and ryots of Deoghur gave Rs. 1,400; and Sheik Meherali Akbarali Rs. 1,300. Baboo Pachu Pramanik, Munshi Mahboob Ally, and Baboo Jadab Hari gave Rs. 1,200 each. Baboo Porai Pramanik gave Rs. 1,125. Srimotya Gooni of Brojonath Chak, and Baboo Mathura Nath Saha, contributed Rs. 1,100 each, and Baboos Umrita Lall Mookerjee, Umesh Chandra Sunyal, Ananta Deb Mookerji, Saik Chowdhuri, Jafal Mirdha, Mastaran Sarkar, Kaloo Sirkar, Dighapatia Raj, Khareo Sardhar, Parmeshar Teli, Mehera Mandal, and Sreemati Kristo Mayee Debya, Sreemati Jannobi Chaudhurani, Mussamut Sarsath Baharia and Mussamut Jagpati Kuer each Rs. 1,000.

Wells.—The amount of the contributions under this head is Rs. 19,090. Of this sum, Rs. 3,895 were contributed in the district of Shahabad for the construction of 13 wells; Rs. 1,010 in the district of Durbhunga for 4 wells; Rs. 3,625 in the district of Sarun for 17 wells; and Rs. 5,000 in the district of Monghyr for 20 wells. The remaining 26 wells constructed during the year are distributed among the districts of Nuddea, Rungpore, Julpigoree, Patna, Gya, Mozufferpore, Chumparun, Purneah, and Cuttack.

Miscellaneous.—Rupees 3,840 were contributed. Mr. J. D. Beglar constructed a jheel at Chagdah at a cost of Rs. 3,000.

RESOLUTION.—Compared with the corresponding figures for the previous two years, there has been a large falling off in the contributions made for works of public utility during the year under review, but looking to the many wants which are constantly being brought to notice from all parts of the Province, it may be expected that the decrease is only temporary. To those who have contributed towards such works during 1886, the Lieutenant-Governor tenders his acknowledgements for their public spirit and liberality.

Letters of acknowledgment will be forwarded by Government to those who have constructed important works. The contributors of works costing Rs. 500 and under will, as usual, receive an acknowledgment from the Commissioner or the Magistrate of the Division.

ORDER.—Ordered that a copy of this Resolution, and of the statement, be forwarded to the Board of Revenue, Lower Provinces, and to all Commissioners of Divisions, to the Commissioner of Chota Nagpore, and to all Superintending Engineers of Public Works Circles in Bengal, for information.

Ordered also, that a copy of this Resolution, and of the statement, be forwarded to the Revenue and Judicial Departments of this Government for information.

Ordered also, that this Resolution and the statement be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

C. M. BROWNE, *Col., R.E.*,

Offg. Secretary to the Govt. of Bengal,
P. W. Dept.

Statement of Works of public utility constructed by private individuals during the year 1886.

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
Burdwan.	Burdwan	Jahir Sheikh	Excavation of a tank	Muhangram in thana Solimabad	Rs. A. P. 215 0 0	2,385 0 0	Rs. A.
		Bahadur Beende Behari Majumdar, Behari Lal Bose, Beni Madhava Chuckerbutty and Nabin Chandra Ghose.	Excavation of a tank	Ditto ditto	800 0 0		
		Bahadur Chandra Lal Mookerjee	Excavation of a tank	Baznapore, thana Kulna	1,000 0 0		
		General Coal Company, Limited	Construction of a water reservoir.	Sagarbhumra, thana Kokra	300 0 0		
	Bankura	Works costing less than Rs. 200 each.			0 0 0	1,900 0 0	
		Bahadur Rajshah Chandra De	Tank	Village Noma, thana Bankura	400 0 0		
		Jagmohandas Khan of Bankura police station.	Do.	Do. Hindal ditto	100 0 0		
		Bahadur Chandra Chandra Dastanik	Do.	Do. Gopipore, thana Khutra	400 0 0		
	Sagarbhumra	Shriah Khondoo	Reclaiming a tank	Roumipore, thana Sauri	500 0 0	2,600 0 0	
		Bahadur Madhub Chandra Gosain	Ditto ditto	Sourate, ditto	400 0 0		
		Kunja Behari Mookhopadhyay.	Tank	Adityapore, thana Bahupore	700 0 0		
		Bahadur Durandass Bhattacharyya.	A small tank enlarged	Dansipore, ditto	500 0 0		
	Midnapore	Ganga Narayan Das	Tank	Kurumbar, thana Sukulipore	400 0 0	8,781 4 8	
		Bahadur Sankar Ghose of Goleuria	Do.	By the side of the road leading to Chandrakona close to village Goleuria, outpost Sirahi, police station Keshipore.	400 0 0		
		Srinoti Lokhipriya Chowdhurani of Mohanpore.	Do.	By the side of the Government road leading through Mohanpore, thana Unton.	200 0 0		
		Saidur Khanani of Devanah	Do.	Village Devanah, thana Ghatal	400 0 0		
		Bahadur Nitya Nanda Samanta of Harikunda.	Do.	Do. Mirinsunda, ditto	500 0 0		
		Pakir Dutt of Boudia	Re-excavation of a tank	Do. Boudia, ditto	500 0 0		
		Satyu Bhama Dobi of Norhari-pore.	Ditto ditto	Norhari-pore, thana Chandrakona	500 0 0		
		Bahadur Das Karak of Radhabul-lapore.	Ditto ditto	Radhabulapore near the public road leading from Chandrakona to Minatore.	400 0 0		
		Rajadhar Ghose of Chandoor	A new tank	Near the public road at Chandoor leading from Midnapore to Brahmanbhum.	800 0 0		
		Parhoti Godini of Nimtola	A pucca ghāt on the Sitaluti river.	Village Sitaluti, thana Daspara	800 0 0		
		Norahari Jann of Jajpur	Tank	Do. Jajpur, thana Nandigram	400 0 0		
		Holadhar Mandal of Mohinichuk	Do.	Mohinichuk, thana Satalaha	500 0 0		
	Hooghly	Hareh Kista Bhatti of Bannuchuk	Do.	Bannuchuk, ditto	200 0 0	3,100 0 0	
		Ram Narain Das of Srikrishna-pore.	Do.	Srikrishnapur, ditto	400 0 0		
		Sreenolaya Goni of Hojonth-chuk.	Do.	Hojonthchuk, ditto	1,100 0 0		
		Bisunder Jann of Jalimchuk	Do.	Jalimchuk, ditto	225 0 0		
		Judhister Pannamuck of Bannu-kapur.	Do.	Bannuchuk, thana Dura	212 0 0		
		Sreenolaya Apurba Debva of Dal Amyah.	Do.	Dal Amyah, thana Egra	200 0 0		
		Kashi Pandu of Koshia, Patna, police station Egra.	Do.	Amyah	250 0 0		
		Chhotamoni Chawdhari of Alon-giri, police station Egra.	Do.	Baramari	500 0 0		
		Sreenolaya Brahma Debva of Chitra.	Do.	Bashgram	200 0 0		
		Works costing less than Rs. 200 each			884 4 8		
		Bhagubati Das	Pucca road from Grand Bank Road leading to river ghāt.	Bhadraesur, thana Serampore	800 0 0		
		Hara Nanda Shahu	A road	From village Pythem in Howrah leading to the railway station at Haripur in thana Haripur.	700 0 0		
		Kankisto Mookerjee	Portico on the ghāt of a tank.	Chambani, thana Serampore	600 0 0		
	Howrah					3,100 0 0	
	TOTAL OF BURDWAN DIVISION						37,768 4
Presidency Division.	24-Pergunnahs	Bahadur Tarnoprad Chatterji	Tank	Wendrypore	1,500 0 0	1,950 0 0	
		Mohendranamin Patra	Do.	Sagore	450 0 0		
	Nudda	Bahadur Umesh Chandra Sinayal	Tank	Krishnagar	1,000 0 0	11,380 0 0	
		Minati Surada Soodari Das	Charitable Dispensary	Nahodwip	1,000 0 0		
		Ditto	Ditto	Ditto	500 0 0		
		Bahadur Ananta Deb Mukerji	Tank	Pataly	1,000 0 0		
		Bahadur Mandal	Do.	Katormara	600 0 0		
		Amez Mandal	Do.	Chagdah	700 0 0		
		Bahadur Murish Chunder Bhattacharji.	Do.	Ghugia	800 0 0		
		Bahadur Ganga Mandal and others.	Road	From Alina to Sirai village	240 0 0		
		M. J. B. Bzler	Jheel	Chandab	3,000 0 0		
		Bahadur Nabin Chunder Sarkar	Re-excavation of a tank	Randi	500 0 0		
		" Sak Chowdhari	Tank	Between Anakpur and Haripur	1,000 0 0		
		" Panchu Mandal	A pucca well	Minapara	300 0 0		
		Banikanta Muzumdar	Re-excavation of a tank	Dansapur	200 0 0		
		Works costing less than Rs. 200 each			100 0 0		
	Jessam	Bahadur Rajkumar Sarkar	Tank	Kalyanpur	800 0 0	3,800 0 0	
		Minati Bismati Choudhary Das	Do.	Beharia	400 0 0		
		Bahadur Dirmoyini Bazarji	Do.	Talpara	500 0 0		
		" lower Chander Das	Do.	Jagla	3,500 0 0		
	Moordadabad					3,800 0 0	

NOTE.—The Collector of Burdwan remarks: "The Dowager Maharani and the younger Maharani of Burdwan gave donations of Rs. 500 and Rs. 200 respectively during the year for the defence of undefended prisoners in the Sessions Court. As it does not appear that instances of munificence like this should be noted in the body of the return, they have been noted separately."

* Not yet completed.

DIVISION.	DISTRICT.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
PRESIDENCY DIVISION—continued.	Khoolna	Bahadur Gopal Dutta	Tank	Gopinathpur	Rs. A. P.	Rs. A. P.	Rs. A. P.
		" Amardalal Mukerji	Do.	"	250 0 0		
		Dines Sarker	Do.	"	300 0 0		
		Bahadur Haromohun Bazar	Do.	Hathkolia	300 0 0		
		Sahar Harker	Do.	Hathkolia	300 0 0		
		Abdur Sheikh	Do.	Moslemura	300 0 0		
		Arman Ghosh	Do.	Tootpur	300 0 0		
		Hazar Sarker	Do.	Thosra	200 0 0		
		Kasen Jucker	Do.	Dito	200 0 0		
		Tahur Hossain	Do.	Shahpur	300 0 0		
		Bahadur Kanku Chandra Ghosh	Do.	Telkupa	400 0 0		
		" Srisa Chandra Sinha	Do.	Kalipota	300 0 0		
		Works costing less than Rs. 200 each.		Bahura	350 0 0		
						4,030 0 0	
				TOTAL OF PRESIDENCY DIVISION			21,030 0 0
	Dinagopora	Mr. A. T. Ricketts, Manager of Sunderpore wards' estate on behalf of the Court of Wards.	Tank	Badal Grom	700 0 0		
		Kholi Sarker	Do.	Shilpore	500 0 0		
		Rajul Krishnendra Ray of Bahin, district Panchajy.	Do.	Sarashatipore	5,000 0 0		
		Mithun Mandal	Do.	Janim	300 0 0		
		Ram Lal Sarker	Do.	"	200 0 0		
		Nabin Chandra Sarker, Sub-inspector.	Do.	Patinkandi	500 0 0		
		Ram Lal Poddar	Do.	Gadkandi	200 0 0		
		Bala Shaha Khoolia	Do.	Chandrapore	500 0 0		
		Mohali Sanyal	Do.	Banhatipore	500 0 0		
		Sahabul Mandal	Do.	Madhupur	500 0 0		
		Shamap Pramanik	Do.	Somdanga	3 0 0		
		Pachasa Sarker	Do.	Katka	200 0 0		
		Gaur Chandra Karmaker	Do.	Lalpur	300 0 0		
		Hosin Pramanik	Do.	Dhishidoo	300 0 0		
		Narain Shaha	Do.	Jospara	500 0 0		
		Arjun Shaha	Do.	Sinta	500 0 0		
		Haduo Sarker	Do.	Shibpur	500 0 0		
RAJSHAHY DIVISION—continued.	Rajshahiye	Kaman Kach	Do.	Shibpur	500 0 0		
		Madhab Chandra Ghosh	Do.	Turtia	500 0 0		
		Phanajoy Mitra	Do.	Isanpur	500 0 0		
		Manu Mirza	Do.	Siraj Kanton	400 0 0		
		Yash Pramanik	Do.	Harik Balia	400 0 0		
		Hosonalla Sanyal	Do.	Nagberia	400 0 0		
		Kholi Mandal	Do.	Sidail	300 0 0		
		Ram Lal Mandal	Do.	Gawal	300 0 0		
		Sahar Sarker	Do.	Gadkandi	300 0 0		
		Sahar Mirza	Do.	Dhanspur	700 0 0		
		Kakra Mandal	Do.	Chandpur	700 0 0		
		Hosy Dewan	Do.	Berhara	600 0 0		
		Akul Kaye	Do.	Indran	500 0 0		
		Jalal Mirza	Do.	Hathalia	1,000 0 0		
		Pachu Pramanik	Do.	Dito	1,200 0 0		
		Gocher Pramanik	Do.	Nomadeghi	800 0 0		
		Mindram Sarker	Do.	Debra	1,000 0 0		
		Raymond Sarker	Do.	Sarishat	1,300 0 0		
		Yeni Pramanik	Do.	For Radhaskata	1,125 0 0		
		Kalio Sanyal	Do.	Patrick mola	1,000 0 0		
		Works costing less than Rs. 200 each.			875 0 0		
						22,015 0 0	
	Pabna	Majum Sarker	Tank	Barnabish	500 0 0		
		Jhumer Sarker	Do.	Togbaria	800 0 0		
		Churan Moslem	Do.	Hindol	800 0 0		
		Thakur Jha Pal	Do.	Rahababha	1,500 0 0		
		Bahadur Paba Raj	Do.	Gopalpur	1,000 0 0		
		Bahadur Bahadur Roy, zemindar	Addition to the Serajganga higher class English school.	Serajganga	2,000 0 0		
		Ditto ditto	Revised Thompson Town Hall.	Pabna Town	7,000 0 0		
		Abdur Sobhan Chowdhuri	Library	Barna Town	6,000 0 0		
		Karee Sarker	Tank	Doornapora	1,400 0 0		
		Hosari Golla Pramanik	Do.	Schal	312 0 0		
		Santi Bolla	Do.	Fird	900 0 0		
		Jhura Mandal	Do.	Makarpura	600 0 0		
		Chander K. Karmakar	Do.	Ryapora	700 0 0		
RAJSHAHY DIVISION—continued.	Roga	Isak Chandra Shaha	Do.	Radhabas	700 0 0		
		Das Mohamed Sarker	Do.	Dadail	300 0 0		
		Mutram Das	Do.	Isal	500 0 0		
		Umid Mandal	Do.	Ghagail	300 0 0		
		Rukhan Khan	Do.	Dagra	500 0 0		
		Saxamti K. K. Mayo Gabya	Do.	Adamsighi	1,000 0 0		
		Maharaj Sornmoyee	Pucca well	Ulipora	350 0 0		
		Ranawari Lal Mandal	Tank	Dhanspur	800 0 0		
		Jarip Mohamed	Do.	Dito	600 0 0		
		Haria Dawai	Do.	Shidpur	270 0 0		
		Bani Mohamed	Do.	Tamrapur	350 0 0		
		Hosam Mohamed Mandal	Do.	Kalipore	250 0 0		
		Works costing less than Rs. 200 each.			375 0 0		
						3,345 0 0	
	Pulgaon	His Highness the Maharajah Ranj Bahadur of Cooh Behar.	Construction of and repairs to the bridges on the central emigration road.	Road from Bahadur to Ganga-pura.	2,500 0 0		
		Ditto ditto	Pucca well	Bodessari	450 0 0		
		Ditto ditto	Repairs to Roda charitable dispensary and out-houses.	Roda	340 0 0		
		Works costing less than Rs. 200 each.			100 0 0		
						3,295 0 0	
				TOTAL OF RAJSHAHY DIVISION			61,805 0 0
	Dacca	Rajendra Chandra Ray Chaudhuri.	Tank	Forcespur town	1,400 0 0		
		Upendra Nath Kundu	Do.	Golmihari	1,500 0 0		
RAJSHAHY DIVISION—continued.	Purandipore	Rajendra Chandra Ray Chaudhuri.	Do.	Rishi Rishi	300 0 0		
		Prasanna Kumar Saha	Do.	Dito	500 0 0		
		Rikrab Rishi	Do.	Dona	800 0 0		
		Bishubux Mambi	Do.	Mangoranga	300 0 0		
		Mahura Nath Saha	Do.	Symali	1,100 0 0		
		Deobandhu Kumar	Bridge over a khul	Domsar	200 0 0		
						6,105 0 0	

DIVISION.	DISTRICT.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of district.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
DACCA—continued.	Backergunge	Abdus Salamdar	Road	Satipur	200 0 0		
		The tenants of Nawab Ahsan-ullah Khan Bahadur.	Do.	Satpurkhali	300 0 0		
		Bahadur Khatun Khatun, Brojo Khatun Khatun and others.	A masonry ghât	Patuakhali	1,000 0 0		
		Chuni Chowkidar	Tank	Chur Kakra	200 0 0		
		Hari Das Pal	Do.	Kalipura	250 0 0		
		Sahmeddy Bepari	Do.	Char Falcun	400 0 0		
		Katu Bhuiya	Do.	Ditto	300 0 0		
		Myanul-Ha Kaya	Do.	Ditto	350 0 0		
		Alam Khan	Do.	Ditto	300 0 0		
		Hussainuddin Patwari	Do.	Mejapora	600 0 0		
		Azizuddin Patwari	Do.	Chur Khaila	250 0 0		
		Aitharan Jugi	Do.	Sadumpura	250 0 0	4,400 0 0	
		Berhan Mandal	Tank	Bonda Baula	500 0 0		
		Ali Mirza	Do.	Ben Bangora	400 0 0		
		Myran Mistiri	Do.	Mondol Sheru	275 0 0		
		Solar Mandal	Do.	Joydih	175 0 0		
DACCA—continued.	Mymensingh	Faty Dan	Do.	Kakal	350 0 0		
		Gopal Surar	Do.	Jamunathbari	250 0 0		
		Madan Mohd	Do.	Gaura	250 0 0		
		Bhenu Sheik	Do.	Tarai	300 0 0		
		Joy Singh Das	Do.	Thampur Chur Khail	400 0 0		
		Joy Narain Chandra	Do.	Kathal	300 0 0		
		Giri Jugi	Do.	Kosim	250 0 0		
		Rudras Chandra	Do.	Tarai	300 0 0		
		Mohdoy Sheik	Do.	Azimud-pore	220 0 0		
		Johor Sheik	Do.	Coakendi	200 0 0		
		Mohr Ali Sheik	Do.	Khandahar	500 0 0		
		Mahesh Chandra Shaha	Do.	Booga	600 0 0		
		Netu Chandra	Do.	Boopara	400 0 0		
		Patna Sarkar	Do.	Bhitor	350 0 0		
		Neshtan Mandal	Do.	Shi rampore	400 0 0		
	Chittagong	Anor Khan	Do.	Amrithari	200 0 0		
		Madhoo Mandal	Do.	Ditto	350 0 0		
		Joy Goyinda Sarmah	Do.	Gital	275 0 0		
		Uma Nath Mazumdar	Do.	Gital	250 0 0		
		Kerim Mandal	Do.	Dandapora	100 0 0		
		Abdus Sheik	Do.	Dandapora	800 0 0		
		Semati Jamshi Chaudhuran	Do.	Tanail	1,000 0 0		
		Azi Khatun	Do.	Shampur	300 0 0		
		Abdul Falcun	Do.	Koakomari	600 0 0		
		Abdul Sheik	Do.	Rajmangor	500 0 0		
		Krishna Tulokdar	Do.	Roungaw	400 0 0		
		Gouram Sheik	Do.	Nakrasdi	800 0 0		
		Patna Biswas	Do.	Joyomgar	500 0 0		
		John Chandra Biswas	Do.	Reeshampur	300 0 0		
		Kali Das Choudhuri	Do.	Chanderko	600 0 0		
		Mohammedlee Fakir	Do.	Shomai Shiguri Konda	200 0 0	14,600 0 0	
	TOTAL OF DACCA DIVISION						25,365 0 0
CHITTAGONG.	Chittagong	Mehongli Akbarali	Tank	Dhensa, Satkara	1,300 0 0		
		Ditto	Boopore	Ditto	200 0 0		
		Chandi Uman Chowdry	Tank	Chandul Jaldi	400 0 0		
		Ram Ratan Biswas	Do.	Jahli	400 0 0		
		Abraham Sadagar	Do.	Miler hat, Cox's Bazar	500 0 0		
		Ben Chandra Tachibassan	Do.	Gopurthipore, Zorahunge	300 0 0		
		Ben Shaluk Panchayat	Do.	Rajmangor Rangam	350 0 0		
		Abdul Majid	Do.	Kyrala Kutubia	300 0 0		
		Kamal Ali	Do.	Dhuring do.	220 0 0		
		Works costing less than Rs. 200 each.			655 0 0		
	Tipperah	Shafatuddi of Khilipar	Tank	Khilipar, station Dandkandi	300 0 0	4,735 0 0	
		Nawab Khatun Ahsanulla of Dacca	Large ghât in river	Near Ben Chandraipur bazar, station Mardumgar.	2,000 0 0		
		Srinuti Janda Chowdhury of Lakshmi.	Large tank (dighi)	Near Jowhargunge bazar, station Lakshmi.	15,000 0 0		
		Bahadur Asatush Nath Roy, Zamin-dar.	Tank	Naurail, station Brahmanbariah	400 0 0		
		Ditto	Do.	Shayadpur, station ditto	350 0 0	10,000 0 0	
		Krishna Manant Rekhit	Excavation of tank	Chor Rahim near public road, police station Sumit.	300 0 0		
		Ram Kumar Shaha	Ditto	Ram Kumar Shaha's hat, police station Haidi.	250 0 0		
		Abuzna (woman)	Ditto	Nalchita Shaha's eight annas, police station Haidi.	700 0 0		
		Kali Suroori (woman)	Ditto	Ditto ditto	250 0 0		
		Brja Mohan	Ditto	Delipar, village Raipur, outpost Lakhipar.	325 0 0		
	Noakhali	Karimuddi, Lewan and Dowlat Ghia Tapadar.	Ditto	Atabib Lakhipar	250 0 0		
		Ashtul Shuman	An old tank re-excavated	Nurdee Bawa hat, public road-side, Sundip police station.	300 0 0		
		Himrat Chandra Mahonda	A khal	Khal Khal in Poushtange out-post.	300 0 0		
		Jagan Chandra Shua					
		Kunja Ram Mistri					
		Lal Chand Mistri	Do.	Poon Choori Khal, through Sainagar village to Katoondi khal in Ben Bag.	300 0 0		
		Alauddin Bhutan and others	Do.				
		Alahuddin Bhutan	Tank	Hat Bagh in Ben Bag	300 0 0		
		Srinuti Dasgupta	Do.	Kuderpore ditto	400 0 0		
		Bonendra Sinha	A small masonry bridge	Mahmudpur	300 0 0		
CHITTAGONG.	Noakhali	Pacha Gazi	Tank	Agumbolia	250 0 0		
		Manendra Palwary	Tank	Mancha N gate in Lakhipore	300 0 0		
		Somnath Palwary	Large tank	Chor Rahim in ditto	425 0 0		
		Ayub Ali Chowdhury	Tank	Keora in Raipur out-post	375 0 0		
		Akbari Rudra Pal	Do.	Kudakhali in Poushtange out-post.	275 0 0		
		Works costing less than Rs. 200 each.			1,950 0 0	7,630 0 0	
	Chittagong Hill Tracts						
	TOTAL OF CHITTAGONG DIVISION						20,000 0 0

DIVISION.	DISTRICT.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
PATNA.	Patna	Parwati Singh	Pucca well	Futwah	100 0 0		
		Jugulkeshwar Shaw	Ditto	Buras	300 0 0		
						600 0 0	
	Gya	Bhagwan Sahu Agarwala	Well	Bhumpach	240 0 0		
		Mr. Salun	Three wells	Burari	450 0 0		
		Ditto	Two wells	Hymatipore	200 0 0		
		Ditto	Well	Khannagan	200 0 0		
		Pachhoo Singh	Do.	Trunklegh	200 0 0		
		Works costing less than Rs. 200 each			1,390 0 0	3,280 0 0	
	Shahabad	Saht Narmu Lall	Pucca well	Purwa	225 0 0		
		Bhikhar Senar	Ditto	Akhtarpore	335 0 0		
		Tahir Jolaha	Ditto	Basantpore	305 0 0		
		Dan Roy	Ditto	Deon in	290 0 0		
		Musammit Jirna	Ditto	Thana	270 0 0		
		Akber Ally	Ditto	Do.	300 0 0		
		Ganga Paur	Ditto	Havir Chapra	400 0 0		
		Mulharaj of Doomsan	Ditto	Sodha	500 0 0		
		Naraink Misir	Ditto	Sambharan	200 0 0		
		Ran Saran Misir	Ditto	Ditto	200 0 0		
		Musammit Durga, wife of Deepa Misir	Ditto	Ditto	350 0 0		
		Mathura Panchad	Ditto	Katna	400 0 0		
		Thakur Rada	Tank	Burgh	1,400 0 0		
		Rahoo Raghu Nath Chaman Singh	Pucca well	Harga	250 0 0		
		Works costing less than Rs. 200 each			1,325 0 0	6,620 0 0	
PATNA.	Muzaffarpore	Ajndha Pershad	Well	Mahmedpore	200 0 0		
		Sikandar Agarwal	Bridge	Gidha	5,500 0 0		
		Lachmi Pershad	Tank	Jahangirpore	3,000 0 0		
		Harek Roy	Well	Pargana Gabmhi	250 0 0		
		Ram Bilal Lahoo	Do.	Bishunpore Baghla	200 0 0		
		Jawai Gija	Do.	Ditto ditto	200 0 0		
		Jogi Pashau	Two wells	Hajidpore	200 0 0		
		Gedim Rao	Tank	Laptaha	400 0 0		
		Bhraj Rao	Do.	Hara	400 0 0		
		Musammit Gopal Komar	Do.	Bhita	2,250 0 0		
		Rajommit Bahadur	Well	Bahmepore	300 0 0		
		Works costing less than Rs. 200 each			3,450 0 0	20,190 0 0	
PATNA.	Darbhanga	Hera Singh	Well	Near	200 0 0		
		Shankh Natti	Do.	Bachhaon	200 0 0		
		Herde Narain Singh	Do.	Bahin Nagar	210 0 0		
		Dumrao Kant	Tank	Nama	400 0 0		
		Nathu Misar	Do.	Keshi	400 0 0		
		Musammit Sasole Gihain	Do.	Nama	400 0 0		
		Jashu Gope	Well	Ghara	400 0 0		
		Bachu Sahu	Tank	Dandha	500 0 0		
		Hikharu Sahu	Do.	Koor Sath	500 0 0		
		Ramji Jha	Do.	Chorhi	500 0 0		
PATNA.	Saran	Gopal Thakur	Do.	Bhupah	600 0 0		
		Bachu Bahui	Do.	Bolhi	200 0 0		
		Chaiter Sahu	Do.	Jersah	800 0 0		
		Adhkaru Sahu Teli	Do.	Monchadi	500 0 0		
		Bhokta Rao	Do.	Mohun Ekdora	500 0 0		
		Musammit Saranath Bahuria	Do.	Pali Mohan	1,000 0 0		
		Musammit Jaspall Kuar	Do.	Chorhi	1,000 0 0		
		Munshi Mahabub Ally	Do.	Kuor	1,200 0 0		
		Hakhu Sahu Teli	Do.	Siva Shighpore	1,500 0 0		
		Works costing less than Rs. 200 each			2,800 0 0	16,010 0 0	
PATNA.	Chhapra	Widow of Suligram Bahai	Tank	Tukmanas	16,750 0 0		
		Mohan Bhagat Nour	Do.	Parowli	500 0 0		
		Ganga Pershad	Do.	Jitwaripore	450 0 0		
		Sarfar Roy	Do.	Kachhar	400 0 0		
		Asoo Rao	Well	Kojepore	200 0 0		
		Sachari Sahu	Do.	Karain	200 0 0		
		Sachu Bhulachari	Tank	Jindhyee	250 0 0		
		Bhokta Ram Bachha Singh	Do.	Mothu Sahn-walin	250 0 0		
		Mohu Sahu	Do.	Norajee Tullah	200 0 0		
		Mohu Kauri	Do.	Bungrah	200 0 0		
PATNA.	Chhapra	Munimur Gir	Do.	Mutha Godna	200 0 0		
		Ram Lall	Do.	Mafce Tullah	200 0 0		
		Ranulal Rownar	Do.	Gurkha	200 0 0		
		Anurup Gir and Coomar Gir	Do.	Noodha	200 0 0		
		Ranadhar Misir	Do.	Lakour	200 0 0		
		Kamal Panna	Do.	Dito	200 0 0		
		Randhu	Do.	Dito	200 0 0		
		Shew Narin Roy	Do.	Dadarpore	200 0 0		
		Bharath Keshur	Do.	Lahjee	200 0 0		
		Monohur Lall	Do.	Do.	200 0 0		
PATNA.	Chhapra	Rindsey Tewari	Do.	Sonharan	200 0 0		
		Musammit Hira Kalwarin	Do.	Kapla	200 0 0		
		Works costing less than Rs. 200 each			10,700 0 0	41,300 0 0	
	Chhapra	Gopal Sahu Kalwar	Tank	Mithuri	4,000 0 0		
		Lall Ram Marwari	Do.	Rottiah	1,000 0 0		
		Parasuram Tel.	Do.	Mecherwan	1,000 0 0		
		Haranath Misir	Do.	Bazar Bihari	8,000 0 0		
		Karia Kaur	Two wells	Mahra	200 0 0		
		Jhingoor Misir	Well	Kurnara	200 0 0		
		Ganga Bai	Tank	Lokpau	200 0 0		
	Chhapra	Drummond, Mr.	Do.	Narandhi	200 0 0		
		Aurodh Gija	Well	Dhaholi	210 0 0		
		Works costing less than Rs. 200 each			15,310 0 0	36,320 0 0	
TOTAL OF PATNA DIVISION							1,26,880 0 0

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.		Rs. A. P.
Bhagulpore.	Moughyr.	Bishoo Berhad	Tank	Chakai	800 0 0		
		Bishoo Bhaser	Do.	Pabani	300 0 0		
		Girder Bhaser	Do.	Chak Bhaser	400 0 0		
		Kumhar Jaha	Pucca well	Charan	200 0 0		
		Omkaresh and Amritlal Kulware	Ditto	Raj Geroo	400 0 0		
		Musammat Champa Kumri	Ditto	Bandhara	300 0 0		
		Roona Roy	Ditto	Harrook	225 0 0		
		Soneo Choudhry	Ditto	Rahoonpore Bahraj	300 0 0		
		Darbhanga Choudhry	Ditto	Khodabandpore	200 0 0		
		Tritam Prasad	Ditto	Manihaul	275 0 0		
		Gyan Das Kossain	Ditto	Baltah	250 0 0		
		Kasi Moser	Ditto	Shorpoce	200 0 0		
		Ram Lal Moser	Ditto	Saria	200 0 0		
		Pachin Manjhi	Ditto	Parhara	300 0 0		
		Haba Kap Lal	Ditto	Barowin	150 0 0		
		Chanchal Singh	Ditto	Ditto	200 0 0		
		Manabhai Roy	Ditto	Phulwaria	250 0 0		
		Bundi Roy	Ditto	Sugraha	250 0 0		
		Musammat Chorn Kumri	Ditto	Chak Sydad	200 0 0		
		Raghunath Sahai	Ditto	Moheshpore Baghanathpore	200 0 0		
		Ratan Adhabom	Ditto	Moradpore	250 0 0		
		Bhikhai Mahlon	Ditto	Singraspore	250 0 0		
		Ram Lal Mahlon Kory	Ditto	Mahuldinagar	4,000 0 0		
		Works costing less than Rs. 200 each				10,500 0 0	
Bhagulpore.	Bhagulpore.	Kanohan Mandal	Tank	Bela Ganheria	600 0 0		
		Tekoo Gilm	Do.	Dhabowli	500 0 0		
		Hausaji Singh	Do.	Ditto	700 0 0		
		Khanter Mandal	Do.	Perranandpore	600 0 0		
		Mohi Gope	Do.	Bacha Haraboo	275 0 0		
		Nuroun Kalwar	Do.	Manjee	355 0 0		
		Sathiy Mandal	Do.	Dabeepoth	200 0 0		
		Lachand Ghansook	Do.	Lahar Lachmania	400 0 0		
		Panchu Hajra	Do.	Moharce	450 0 0		
		Gopal Shaw	Do.	Randul Patti	300 0 0		
		Dewan Mandal	Do.	Kachha	300 0 0		
		Ashraf Meah	Do.	Serowina	700 0 0		
		Works costing less than Rs. 200 each			405 0 0	6,135 0 0	
Bhagulpore.	Purneah.	Lakhan Das Mohant	Tank	Ladhugurh	600 0 0		
		Musammat Harna	Do.	Kuhoria	500 0 0		
		Gopal Manoh	Do.	Khairat	400 0 0		
		Musammat Jafri	Do.	Parabha	500 0 0		
		Harna	Do.	Doria	250 0 0		
		Dehisi Harnat	Well	Asanagar	500 0 0		
		Works costing less than Rs. 200 each			545 0 0	3,005 0 0	
Bhagulpore.	Malda.	Jhubbha Mandal	Tank	Kashin	725 0 0		
		Lohwar Mandal	Do.	Nashirabad	600 0 0		
		Mahowanda	Do.	Ditto	850 0 0		
		Kanetullah Mandal	Do.	Ainmora	600 0 0		
		Sarif Moha	Do.	Arimar	650 0 0		
		Mohara Mandal	Do.	Moharagar	1,000 0 0		
		Jahid Hori	Do.	Ditto	1,200 0 0		
		Ghoushyan Chaudhary	Do.	Bhahabjipore	350 0 0		
		Works costing less than Rs. 200 each				5,975 0 0	
Bhagulpore.	Sondal Pergunnah.	Ghatwaki, muskigirs, and 1750s of Luppah Saruth Dughur	Bandhs 521 new 100 old	Throughout the Dughur sub-division	3,213 14 6		
		Ditto ditto of ditto	Tanks 7 new 12 old	Ditto	1,400 0 0		
		Coast of Wards' estate Kohini	Hirday Bandh, 745 feet long.	Mudbunian Chharat	1275 0 0		
		Mr. Grant, Zemindar	Leaving Barabandh tank.	Doonka	600 0 0		
		Sonhal Mandal	Tank	Tetia	700 0 0		
		Mr. W. Maling Grant, Zemindar.	Reed 11 miles long	Amambont	204 13 0		
		Ditto ditto ditto	Do. 1,000 feet long	Doonka	407 0 0		
		Ditto ditto ditto	Bandh 652 feet long	Shankin Taluk Chaptien	534 11 0		
		Works costing less than Rs. 200 each			2,618 0 0	9,884 8 5	
				TOTAL — BHAGULPORE DIVISION			35,068 8 5
Chota Nagpore.	Hazaribagh.	Works costing less than Rs. 200 each			138 0 0	138 0 0	
	Lohurdugga.	Works costing less than Rs. 200 each					
		Karni Datta	Constructing a tank	Newpath, pergunnah Tunder	200 0 0		
		Bandhon Pal	Ditto	Topochanchi, pergunnah Kairas, police station Topochanchi.	0-0 0 0		
		Works costing less than Rs. 200 each			0 0 0	580 0 0	
	Singbhoim.	Angoo Rout	Tank	Roomardangi, pergunnah Dhal-hud.	300 0 0		
		Minor Takur Mohendra Nath S. N. H. of Kharsawan.	Do.	Kharsawan	500 0 0		
		Works costing less than Rs. 200 each			45 0 0	645 0 0	
				TOTAL OF CHOTA NAGPORE			1,283 0 0

* All for improvement of land.

† Though called an embankment, it is in fact a reservoir for water.

DIVISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of divisions.
Orissa	Cuttack	Puttich Chand Marwari	Well	In Nymsruk town, Cuttack	Rs. A. P. 505 0 0	Rs. A. P. 5,605 0 0	Rs. A. P. 7,612 0 0
		Kundan Mahanty	Tank	Rohin, pergunnah Kato	375 0 0		
		Raju Nakk	Pucca building	Khusayanti, pergunnah Assuram	400 0 0		
		Raja Padmalal Bhunj	Two tanks	Badejoli, kila Kanika	250 0 0		
		Ditto	Tank	Mariemah, kila Kungka	220 0 0		
		Kembi Mahapatra and Gopal	Do.	Rasuni, kila Kanika	200 0 0		
	Poores	Khandaik Roy.	Do.	Rejipore, ditto	250 0 0	400 0 0	
		Srinath Nircep	Do.				
		Raja of Parikood	Do.	Rural, station Sudder	200 0 0		
		Ditto	Do.	Chargya, ditto	200 0 0		
	Balasore	Pahir Das	Do.	Tuckin, police-station Jhalasore	800 0 0	2,147 0 0	
		Mano Das	Do.	Kardacher, police-station Bosta	300 0 0		
		Jaganmohan Mallik	Do.	Rugan Mahanty Guraji, police-station Balasore.	370 0 0		
		Netya Churn Das	Do.	Subajipatas, police-station Balasore.	275 0 0		
		Mudhu Raden Das	Do.	Thondra, police-station Balasore	350 0 0		
		Gopinath Patnigrahi	Do.	Tota, ditto Bora	350 0 0		
		Doordubi Behera	Do.	Jala, ditto do.	732 0 0		
		Jaganmohan Patnigrahi	Do.	Sarsingpora, ditto do.	800 0 0		
		Mosamat Nizam Bawa	Do.	Pichel, police-station Basudoh-pore.	900 0 0		
		Prasad Das	Do.	Borogoria, police-station Bhud-ruck.	450 0 0		
		TOTAL OF ORISSA DIVISION					

Summary.

					Rs. A. P.
Total of Burdwan	Division	...	...	...	17,766 4 8
Ditto Presidency	ditto	...	...	...	21,000 0 9
Ditto Rajshahye	ditto	...	...	...	61,806 5 0
Ditto Dacca	ditto	...	...	...	25,365 0 0
Ditto Chittagong	ditto	...	...	...	28,383 8 0
Ditto Patna	ditto	...	...	...	1,26,884 0 0
Ditto Bhagulpore	ditto	...	...	...	35,003 2 3
Ditto Chota Nagpore	ditto	...	...	...	1,003 0 0
Ditto Orissa	ditto	...	...	...	7,612 0 0
GRAND TOTAL OF DIVISIONS					3,26,323 3 9

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 10th March 1888.

No.	District and date of return.	Rainfall at Sadler Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan, Mar 10, '88	Nil	Weather—seasonable. <i>Rabbi</i> harvest is turning out a very fair one. Ploughings have been extensive and prospects are good. Common rice stands at about 20 seers per rupee on the average.
	2 Bankura „ 10, '88	Nil	Weather—days hot and nights cool. Pressing of sugarcane continues. Mustard, <i>arhar</i> and barley being gathered. Wheat ripe for cutting. Prices stationary.
	3 Beerbhoom „ 10, '88	0.10	Weather—cooler since the rain of 9th. <i>Rabbi</i> harvest going on; outturn good.
	4 Midnapur „ 10, '88	—	Weather—warm, but seasonable. <i>Boro</i> crop progressing well; also <i>rabbi</i> in west and south of the district.
	5 Hooghly „ 10, '88 Howrah „ 12, '88 Ouloberiah „ „	0.20 0.62 0.16	Weather—normal. State and prospects of crops good. Strong south winds. Reaping of sugarcane continues.
<i>Central Districts.</i>			
PRESIDENCY DIV.	6 24-Perghs. Mar. 13, '88	0.95	Weather—hot with heavy showers of rain. Prospects of crops satisfactory. Sugarcane is still being cut. Lands are being tilled for rice crop.
	7 Nudda „ 10, '88	0.11	Great heat in daytime. Light rain on the 9th. All unharvested winter crops good; general outturn of those harvested good. Ploughing and sowing in good progress.
	8 Khoulas „ 10, '88	1.09	Weather—was getting warm until the 8th, when a thunder-storm cooled the air. Cold-weather crops, as also the mango crop, promise well. Transplanting of <i>boro</i> rice going on.
	9 Jagesore „ 10, '88	Nil	Weather—days warm, nights still cool. Ploughing of rice lands in progress. Rain much wanted. Linseed, barley, <i>masuri</i> and <i>kafai</i> being gathered.
	10 Moorsheadabad „ 10, '88 Lalbagh „ „	0.03 0.06	Weather—getting warmer. State of <i>rabbi</i> crops good. They are being cut and threshed.
RAJSHAHY DIV.	11 Dinagepur Mar. 10, '88	Nil	Weather—seasonable. Prospects of <i>rabbi</i> and other crops satisfactory. Lands are being ploughed for <i>khaddi</i> crops. Price of rice stationary.
	12 Rajshahye „ 10, '88	Nil	Weather—seasonable. Prospects of <i>boro</i> paddy and spring crops generally good.
	13 Rangpur „ 10, '88	Nil	Weather—hot with west wind until Thursday (8th), when it became cloudy and cool. Tobacco and pulses are being cut. <i>Aus</i> rice and jute are being sown. Rain is much wanted.
	14 Bogra „ 10, '88	0.16	Weather—very hot up to the 8th, when clouds and a high wind arose, and slight rain on the 9th. State and prospects of crops satisfactory.
	15 Pabna „ 10, '88	0.06	Slight rain on the 9th. Weather cooler. Prospects of crops good.
	16 Darjeeling „ 10, '88	Nil	Weather—cloudy; rain expected. Rain wanted for spring crops. Prospects otherwise favourable.
	17 Jalpigoree „ 10, '88	Nil	Weather—bright and warm in the early part of the week; latterly cloudy. Prospects of <i>rabbi</i> crops good. Tobacco is being cut. Pressing of sugar cane in progress.
<i>Eastern Districts.</i>			
DAKKA DIVISION.	18 Dacca, Mar. 10, '88	Nil	Weather—fine and getting hot. Ploughing for early rice and jute going on. Pulses are being harvested. Prospects continue good.
	19 Farredpur „ 10, '88	—	A slight shower on the 9th. Weather slightly cooler. Harvesting of <i>rabbi</i> crops proceeding with good outturn. Lands are being ploughed for jute and early rice.
	20 Backergunge „ 9, '88	Nil	Weather—seasonable. Prospects of crops good.
	21 Mymensingh „ 9, '88	Nil	Weather—sultry. State and prospects of crops good.
	22 Chittagong Mar. 13, '88	0.95	Weather—seasonable. Prospects of winter crops good. Prices stationary.
CHITTAGONG DIV.	23 Nonkholy „ 8, '88	Nil	Weather—getting warm. <i>Rabbi</i> crops are doing well. Land is being prepared for <i>aus</i> crop.
	24 Tipperah „ 8, '88	Nil	Weather—gradually getting hot; nights and mornings cool. Harvesting of sugarcane and pulses nearly completed. Prospects of standing crops excellent.
	25 Chittagong Hill Tracts „ 6, '88	Nil	Weather—dry and hot during the day. Thick fog still continues in the mornings. Tobacco and other winter crops doing well. <i>Jam</i> cutting progressing.
	Hill Tipperah „ 7, '88	Nil	Weather—unsettled. Cutting of sugarcane and tobacco nearly over. Sowing of <i>til</i> oil-seeds and transplanting of <i>boro</i> paddy still going on. <i>Chittan</i> doing well.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops
BEHAR.			
PATNA DIV.	26 Patna Mar. 10, '88	Nil	Weather—clear and getting hot. Prospects of spring crops and opium continue favourable. Harvesting of <i>rabbi</i> crops and gathering of opium going on.
	27 Gya „ 10, '88	Nil	Weather—seasonable. <i>Rabbi</i> being harvested and opium extracted.
	28 Shahabad „ 10, '88	Nil	Weather—getting hot. Harvesting of <i>rabbi</i> crops in progress. Weather continues favourable for poppy; the drug is being collected and the produce is reported to be very good.
	■ Darbhanga „ 10, '88	Nil	Weather—getting warm. <i>Rabbi</i> harvest has commenced. Opium is being collected. Mango trees are in blossom. Indigo sowing in progress. Price of common rice averages 21 seers per rupee.
	30 Mozufferpur „ 10, '88	Nil	Weather—warm. Harvesting of <i>rabbi</i> crops commenced. Indigo seeds are being sown. Collection of opium is being pushed on; one-half the drug housed; produce adequate; weather favourable.
	31 Saran „ 10, '88	Nil	Weather—warmer than the preceding week. Harvesting of <i>rabbi</i> crops in full progress. Collection of opium is being made. Indigo sowings going on.
	32 Chumpana „ 10, '88	Nil	Weather—fair; days warm; nights cool. East wind blowing. <i>Rabbi</i> crops ripening. Peas being collected. Extraction of opium progressing with fair outturn.
RRASPORE DIV.	■ Monghyr Mar. 10, '88	Nil	Weather—seasonable; getting warm. Harvesting of <i>rabbi</i> crops has commenced in places. Collection of opium going on. Indigo sowings in progress with the best prospects.
	34 Bhagalpur „ 10, '88	Nil	Weather—still pleasant. <i>Rabbi</i> harvest commencing with outturn below the average. Peas and <i>rahar</i> are best crops. Rain wanted for indigo cultivation.
	35 Purneah „ 10, '88	Nil	Weather—seasonable. Tobacco is being cut; a fair crop.
	36 Maidah „ 10, '88	Nil	Weather—seasonable. <i>Rabbi</i> crops doing well except in thana Bahia and out-post of Tulshihatta where some damage has been done for want of rain. Transplantation of <i>boro</i> paddy continues. Common rice selling at an average of 24 seers per rupee.
	■ Sonthal Perghe „ 10, '88	Nil	Weather—getting warm and rather cloudy. Sugarcane planting and indigo sowing going on.
ORISSA.			
ORISSA DIV.	38 Cuttack Mar. 9, '88	Nil	Weather—fair. <i>Dalua</i> rice is raising into ear. Prospects of <i>dalua</i> and mango good. <i>Dalua</i> is partially suffering from drought at Baidi. Tobacco and wheat being reaped. Price of common rice unchanged.
	39 Pooree „ 8, '88	Nil	Weather—seasonable. Land is being ploughed. <i>Dalua</i> rice is ripening. <i>Rabbi</i> is being gathered. Common rice 24 seers 2 chittacks per rupee in the Sudder sub-division, and 23 seers 3 chittacks in the Khorda sub-division.
	40 Balasore „ 9, '88	0.40	Weather—seasonable. Recent rain very favourable to cultivation. <i>Dalua</i> rice promises well.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Harsardigh Mar. 9, '88	Nil	Weather—seasonable; getting hot. <i>Rabbi</i> has yielded about 8 annas. Sugarcane has been a full crop in most places. Collection of opium is approaching completion and the outturn has been good so far. Prices stationary. Cattle-disease in a few villages.
	42 Leonardgha „ 10, '88	0.01	Weather—cloudy and warm. Harvesting of <i>rabbi</i> going on. Prospects of mango good. Prices steady.
	43 Singhpur „ 9, '88	Nil	Weather—getting warm; cloudy during the last two days. <i>Rabbi</i> being harvested; expected outturn 12 annas. There was a rise in the prices of food-grains.
	44 Manbhoom „ 10, '88	Nil	Weather—hot with clouds hanging about. Prospects of <i>mohua</i> and mango are good so far. Spring crops doing well.

Published for general information.

CALCUTTA, REVENUE DEPT.;
The 13th March 1888.P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, in A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean to A.M. temperature.
CENTRAL.	Porree	Gopulpore	29.900	29.916	+0.016	Calm	11.0	88.2	6th Mar.	66.2	6th Mar.	84.7	70.0	77.5	+0.4	81
		Fake Point	29.980	29.911	+0.067	SW	26.0	85.0	6th, 7th Mar.	64.0	6th, 7th Mar.	85.2	67.0	76.0	-1.3	80
	Cuttack	Cuttack	29.927	29.900	+0.027	Calm	31.0	87.0	6th, 7th Mar.	64.0	6th, 7th Mar.	80.0	69.0	74.5	+0.4	85
	Balasore	Balasore	29.950	29.900	+0.050	Northerly	30.0	82.0	6th, 7th, 8th Mar.	68.0	3rd, 4th Mar.	81.0	63.0	72.0	-1.0	84
	South-West Midnapore	Samar Island	29.980	29.900	+0.080	SW	30.0	86.7	7th, 8th Mar.	64.0	6th, 7th Mar.	83.0	73.0	78.0	+0.6	84
	South 24-Pargannas	Midnapore	29.950	29.900	+0.050	S	30.0	87.0	8th Mar.	66.7	3rd, 4th Mar.	83.0	64.0	73.0	+0.1	84
	24-Pargannas															
	Hewrah	Calcutta	29.907	29.900	+0.007	SW	70.0	81.0	6th, 7th, 8th Mar.	69.0	3rd, 4th Mar.	80.0	64.0	72.0	-0.1	82
	Hooghly															
	Burdwan	Burdwan	29.982	29.981	+0.001	Westerly	34.0	85.0	7th, 8th Mar.	69.0	3rd, 4th Mar.	83.0	67.0	78.0	-0.1	81
NORTH-WEST BENGAL.	Bankura	Bankura	29.907			NW	38.0	81.0	8th Mar.	61.0	3rd, 4th Mar.	80.0	65.0	78.2	-	82
	Berehmoni	Ranagunge	29.952	29.900	+0.052	W	20.0	86.0	8th Mar.	64.0	3rd, 4th Mar.	82.0	63.0	70.2	+1.8	80
	West Burdwan															
	Moorshedabad	Berhampore	29.917	29.900	+0.017	Westerly	32.0	84.7	8th Mar.	69.0	3rd, 4th Mar.	81.0	63.0	72.1	+1.2	82
	Nudra	Krishnagar	29.908	29.900	+0.008	WNW	30.0	84.7	7th, 8th Mar.	64.0	3rd, 4th Mar.	82.0	65.0	75.3	-	80
	Jessore	Jessore	29.900	29.900	+0.000	WSW	31.0	81.0	7th, 8th Mar.	65.0	3rd, 4th Mar.	80.0	62.0	72.8	+0.3	81
	Khoulna															
	Chittagong	Chittagong	29.907	29.900	+0.007	Calm	72.0	85.0	6th, 7th, 8th Mar.	69.0	3rd, 4th Mar.	80.0	64.0	75.0	+0.7	77
	Chittagong Hill Tracts	Bombura						Observations suspended.								
	Bakurpura	Bakurpura	29.907	29.900	+0.007	W	30.0	80.0	6th, 7th, 8th Mar.	69.0	3rd, 4th Mar.	80.0	63.0	70.5	-1.0	78
EAST BENGAL.	Nascholly	Nascholly	29.907	29.900	+0.007	Calm, S.W.	30.0	80.0	6th, 7th, 8th Mar.	64.0	3rd, 4th Mar.	80.0	61.0	74.5	-1.0	82
	Farrukpore	Farrukpore	29.900	29.900	+0.000	S.W.	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.1	-2.0	80
	Dacca	Dacca	29.900	29.900	+0.000	SW	30.0	81.0	7th, 8th Mar.	65.0	3rd, 4th Mar.	81.0	64.0	78.3	-1.7	80
	Comilla	Comilla	29.907	29.900	+0.007	SW	30.0	82.0	6th, 7th, 8th Mar.	65.0	3rd, 4th Mar.	81.0	61.0	76.4	+0.7	79
	Mymensingh	Mymensingh	29.900	29.900	+0.000	E.W.	30.0	80.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.8	+0.0	78
	Rogra	Rogra	29.900	29.900	+0.000	Calm	31.0	85.0	8th Mar.	64.0	3rd, 4th Mar.	81.0	60.0	74.4	-	80
	Pitha	Karayunge	29.900	29.900	+0.000	Variable	30.0	83.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	75.8	+1.3	80
	Rajshahi	Rajshahi	29.900	29.900	+0.000	N.W.	30.0	83.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.0	-0.0	77
	Malda	Malda	29.900			NW	30.0	83.0	8th Mar.	65.0	3rd, 4th Mar.	81.0	60.0	75.5	-	81
	Dinapore	Dinapore	29.900	29.900	+0.000	Calm	30.0	85.0	8th Mar.	65.0	3rd, 4th Mar.	81.0	60.0	75.5	+0.0	87
NORTH BENGAL.	Rungpore	Rungpore	29.900	29.900	+0.000	E	30.0	82.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.7	+0.1	79
	Jalpaiguri	Jalpaiguri	29.900	29.900	+0.000	E.S.E.	31.0	80.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.4	+0.0	77
	Cooch Behar															
	Darjeeling Hill Tracts	Darjeeling	29.900			Calm	30.0	83.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	82.7	+0.1	84
	Purneah	Purneah	29.900	29.900	+0.000	Calm	30.0	83.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.8	+0.0	85
	North Bhagalpore															
	Muzaffarpore	Muzaffarpore						Observations suspended.								
	Darbhanga	Darbhanga	29.900	29.900	+0.000	W	30.0	82.0	8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.7	+0.0	79
	Chompran	Motihari	29.900	29.900	+0.000	Calm, S.W.	30.0	80.0	7th, 8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	73.8	+0.0	85
	Katua	Chupra	29.900	29.900	+0.000	W.S.W.	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	75.5	+0.0	80
SOUTH BENGAL.	Shahabad	Delra	29.900	29.900	+0.000	SW	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	72.6	+0.0	80
		Buxar	29.900	29.900	+0.000	W.N.W.	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	74.1	+0.0	80
		Arrah	29.900	29.900	+0.000	WNW	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	75.3	+1.0	81
	Gya	Gya	29.900	29.900	+0.000	Variable	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	73.2	+0.0	85
	Patna	Bankipore	29.900	29.900	+0.000	W	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	73.8	+0.0	81
	South Bhagalpore															
	Monghyr	Bhagalpore	29.900	29.900	+0.000	NW	30.0	81.0	7th, 8th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	76.0	+0.0	80
	Benihal Pargannas	Doonka	29.900			W.N.W.	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	72.0	+0.0	80
	Hazaribagh	Hazaribagh	29.900	29.900	+0.000	North Westerly	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	73.5	+0.0	80
	Lohardugga															
SOUTH BENGAL.	Manbhoom	Manchao	29.900	29.900	+0.000	Variable	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	72.0	-0.0	77
	Singhbhoom	Chyabura	29.900			SW	30.0	81.0	7th Mar.	65.0	3rd, 4th Mar.	80.0	60.0	72.0	-1.0	77

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same period of the year. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 100. The numerical means or averages of the rainfall in that district determined from the returns sent in by the sub-divisional officers for the same period. The total rainfall in the district is divided by the number of stations. A rainy day is one on which at least one inch of rain has fallen.

for the week ending Friday the 9th of March 1888.

DISTRICT OBSERVATIONS.														Representative station.	District.	METEOROLOGICAL DIVISION.
Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall at week at observing station.	OF WEEK.	RAINFALL.						Average number of rainy days.	Normal number of rainy days.					
				Since 1st of February.			Since 15th May 1887.									
				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
28	0	Nil	—	—	—	—	—	—	—	—	—	—	Gopalpora	Poores	ORISSA.	
29	0.3	Nil	Nil	0.35	Nil	0.24	-0.16	44.47	57.00	-11.13	0.0	0.6	Palo Point			
30	0.4	Nil	0.01	0.37	0.06	0.41	-0.40	47.02	53.82	-6.21	0.4	0.0	Cuttack	Cuttack	ORISSA.	
42	0.4	0.01	0.17	0.36	0.17	0.33	-0.15	45.81	53.33	-7.57	0.3	0.0	Balasore	Balasore		
70	2.0	0.13	0.22	0.30	0.22	0.47	-0.25	62.82	64.46	-1.64	1.0	0.7	Rauror Island	South-West Midnapore	ORISSA.	
26	0.6	Nil	0.30	0.32	0.30	0.99	-0.69	53.24	53.19	+0.05	0.3	0.8	Midnapore	Midnapore		
■	0.6	0.13	0.42	0.40	0.42	0.61	-0.19	43.63	64.13	-19.52	0.9	1.0	Calcutta	24-Pargannas	ORISSA.	
38	0.7	0.01	0.18	0.40	0.18	0.57	-0.39	47.43	48.32	-0.89	1.0	0.8	Howrah	Howrah		
45	0.0	Nil	0.00	0.25	0.09	0.36	-0.26	51.54	58.36	-1.82	0.3	0.7	Hoochly	Hoochly	ORISSA.	
51	1.1	Nil	0.03	0.21	0.03	0.24	-0.21	45.77	53.49	-4.02	0.3	0.6	Hurdwan	Hurdwan		
57	1.1	0.03	0.06	0.21	0.06	0.23	-0.18	49.17	59.84	-9.33	0.7	0.0	Banksora	Banksora	ORISSA.	
60	1.3	0.11	0.00	0.35	0.00	0.59	-0.59	41.31	51.04	-6.53	0.4	0.8	Bankura	Bankura		
47	1.6	Nil	0.19	0.47	0.19	0.71	-0.52	43.01	55.73	-12.12	0.6	0.9	Beerbhoom	Beerbhoom	ORISSA.	
72	2.4	0.01	0.37	0.55	0.37	0.82	-0.45	101.44	116.80	-4.74	1.0	0.7	West Bankura	West Bankura		
■	■	■	■	■	■	■	■	■	■	■	■	■	Barhampore	Mooredabad	ORISSA.	
■	1.3	Nil	0.19	0.55	0.19	0.62	-0.63	62.50	59.16	-17.07	0.3	0.7	Krishnachar	Krishnachar		
■	2.0	0.01	0.13	0.34	0.13	1.34	-1.41	71.02	112.39	-37.47	1.0	1.4	Jessore	Jessore	ORISSA.	
5	1.3	Nil	0.01	0.71	0.01	0.00	-0.69	57.73	58.02	-20.78	0.3	1.2	Khoolas	Khoolas		
40	2.0	0.04	0.07	0.51	0.07	0.62	-0.55	42.00	62.90	-20.24	0.8	0.9	Chittagong	Chittagong	ORISSA.	
50	0.7	0.31	0.40	0.57	0.40	0.52	-0.42	44.55	73.30	-28.65	0.5	1.0	Demagiri	Chittagong Hill Tracts		
51	1.9	0.01	0.05	0.35	0.05	0.60	-0.55	61.32	60.20	-7.72	0.5	0.8	Barrisal	Backergunge	ORISSA.	
■	1.4	0.11	0.12	0.13	0.17	0.32	-0.15	61.13	58.35	+2.77	0.3	0.5	Noakhully	Noakhully		
40	■	Nil	0.04	0.30	0.04	0.49	-0.45	45.90	55.39	-8.43	1.0	0.7	Furzedpore	Furzedpore	ORISSA.	
■	1.4	Nil	0.06	0.24	0.09	0.26	-0.17	60.93	55.26	-4.43	0.5	0.5	Dacca	Dacca		
60	1.6	Drop	Nil	0.12	Nil	0.13	-0.13	40.86	55.61	-8.76	0.0	0.4	Comilla	Comilla	ORISSA.	
44	1.3	Nil	0.02	0.11	0.03	0.16	-0.14	60.41	50.78	+12.63	0.4	0.4	Mymensingh	Mymensingh		
51	0.7	0.02	0.05	0.25	0.05	0.31	-0.26	51.12	74.21	-9.91	0.3	0.4	Bogra	Bogra	ORISSA.	
55	1.7	Nil	0.10	0.19	0.10	0.24	-0.12	118.13	111.16	+6.97	0.2	0.5	Sekergunge	Fatma		
56	3.7	Nil	Nil	0.51	Nil	0.22	-0.22	114.01	123.07	-3.24	0.0	0.5	Rampore Bochara	Rajshahye	ORISSA.	
40	0.7	Nil	Nil	0.17	Nil	0.18	-0.18	65.36	58.76	+6.60	0.0	0.4	Maldah	Maldah		
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Dinapore	Dinapore	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Bangpore	Bangpore	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Jalporone	Coch Behar	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Darjeeling	Darjeeling Hill Tracts	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Purneah	Purneah	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	North Bhatpore	North Bhatpore	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Moulvibazar	Moulvibazar	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Dumkani	Dumkani	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Manikganj	Manikganj	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Chittagong	Chittagong	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Saran	Saran	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Deoria	Deoria	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Buxar	Shahabad	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Araon	Araon	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Gya	Gya	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Patna	Patna	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	South Bhagalpore	South Bhagalpore	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Manchyr	Manchyr	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	South Pargannas	South Pargannas	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Fazalibagh	Fazalibagh	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Lohardugga	Lohardugga	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Chandpur	Chandpur	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	Chayemam	Chayemam	ORISSA.
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

When the mean for the week is less than the corresponding normal mean, and positive when greater, the sign of the variation is indicated by a minus sign. Under the head District observations of rainfall the normal mean is given in parentheses. The variation is the difference between the actual mean for the week and the normal mean for the week, i.e., from the total rainfall of the sub-division.

Meteorological Division.	District.	Station.	RAINFALL.								TOTAL.		Total rainfall since 1st of March.	Average total rainfall (per cent) of March.	Total rainfall since 1st May 1887.	Average rainfall (per cent) from 1st May 1887 to date.
			Saturday, 3rd March.	Sunday, 4th March.	Monday, 5th March.	Tuesday, 6th March.	Wednesday, 7th March.	Thursday, 8th March.	Friday, 9th March.	Saturday, 10th March.	Number of rainy days.	of Rainfall week.				
EAST BENGAL.	Noakhali.	Gouradhi	...	...	...	...	...	...	...	Nil	Nil	Nil	0	41.75	...
		Baughal	...	...	...	...	...	...	...	Nil	Nil	Nil	0	45.76	...
		Nontholly Ferry	0.02	1	0.02	0.02	1.44	74.90	113.04
		Harishchandra	0.25	1	0.25	0.25	1.00	75.37	116.87
	Purandarpore.	Rampur	...	...	...	...	...	...	...	Nil	Nil	Nil	0	63.35	...
		Manaripore	...	...	...	...	...	...	...	Nil	Nil	Nil	0	50.41	69.15
	Dacca.	Purandarpore	...	...	...	...	...	...	...	Nil	Nil	Nil	0	30.64	53.59
		Goalanda	...	...	...	...	...	...	...	Nil	Nil	Nil	0	37.33	58.06
		Munshingunge	0.10	1	0.10	0.10	1.54	41.21	74.77
		Dacca	...	...	...	...	...	...	...	Nil	Nil	Nil	0	47.91	61.79
	Hill Tipperah.	Narainkunge	0.12	1	0.12	0.12	0.24	41.71	63.21
		Narainkunge	0.01	1	0.01	0.01	0.21	36.20	53.46
		Jaydehpore	0.11	1	0.11	0.11	0.11	62.65	...
		Agarola	Nil	Nil	Nil	0	0.87	45.41	65.64
	Mymensingh.	Comilla	0.20	1	0.20	0.20	1.00	40.40	70.70
		Chandura	1.30	1	1.30	1.30	4.17	41.17	65.28
		Brahmanbaria	...	...	...	...	...	...	...	Nil	Nil	Nil	0	41.34	65.40
		Ramchandrapore.	0.10	1	0.10	0.10	0.10	33.60	...
		Nasirnagar	0.20	1	0.20	0.20	0.20	32.21	...
		Daukandi	...	...	...	...	...	...	...	Nil	Nil	Nil	0	37.07	...
		Kasha	...	...	...	...	...	...	...	5.10	1	5.10	5.10	40.21	...
		Laksham	0.00	1	0.00	0.00	0.00	31.31	...
		Kishoreganj	0.19	1	0.19	0.19	0.60	55.65	71.92
		Atin (Tangail)	...	...	...	...	...	...	...	Nil	Nil	Nil	0	41.22	58.99
Manikgong		...	...	...	...	...	...	...	0.01	1	0.01	0.01	0.01	60.07	70.81
Pabna.		Jamshied	...	...	...	...	...	...	...	Nil	Nil	Nil	0	62.85	63.94
	Narainkunge	...	...	...	...	...	...	...	0.03	1	0.03	0.03	0.61	71.12	101.61
	Subarnachal	...	...	...	...	...	...	...	Nil	Nil	Nil	0	11.70	...	
	Durgapore	...	...	...	...	...	...	...	Nil	Nil	Nil	0	79.05	...	
	Dewanganj	...	...	...	...	...	...	...	Nil	Nil	Nil	0	...	...
	Pabna	...	...	...	...	...	...	...	0.00	1	0.00	0.00	0.48	80.51	101.45
	Beraniganj	...	...	...	...	...	...	...	0.02	1	0.02	0.02	0.18	50.76	...

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 9th of March 1888.—*contd.*

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of March.	Average total rainfall from 1st of March.	Total rainfall since 1st of May 1887.	Average rainfall from 1st of May to date.
			Saturday, 3rd March.	Sunday, 4th March.	Monday, 5th March.	Tuesday, 6th March.	Wednesday, 7th March.	Thursday, 8th March.	Friday, 9th March.	Number of rainy days.	of week.				
NORTH BENGAL— <i>concluded.</i>	Barun	Gopalgunge	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.01	42.65	64.77
		Sewai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	39.74	44.07
SOUTH BENGAL	Shahabad	Chuntab	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	38.48	41.20
		Buxar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	34.73	39.34
		Danree	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.83	?
		Shububul	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.44	41.86	41.72
		Masuram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	31.44	41.45
		Arrah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.12	41.34	40.79
		Mohania	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
	Gya	Aurumabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	39.86	43.08
		Mya	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	41.79	42.31
		Nawadah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	31.64	40.08
		Jehanabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.12	41.77	41.13
		Arwal	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	41.13	?
		Jaganmoy	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.31	?
		Sherrahat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.45	?
		Rajmari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Pakri Karama	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	22.24	?
	Patna	Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	37.17	42.91
		Dinapore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.08	38.41	41.04
		Behat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	35.54	42.89
		Harro	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.14	36.01	39.48
		Bickram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	40.65	?
		Husa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	34.54	?
	Monghyr	Bogovera	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.09	40.04	40.71
		Mouhary	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	47.24	47.18
		Jamui	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.16	40.02	43.90
		Gogri	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	42.83	?
		Shikpara	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	38.03	?
	South Bhagulpore	Bhagulpore	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	41.23	43.68
		Hansa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	39.08	44.51
		Kulung	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	43.45	?
	Montal Pergunah	Rajmari	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.10	37.98	42.32
		Godda	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	40.58	43.61
		Patna	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.13	38.45	43.81
		Nya Mouha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.24	46.71	45.00
		Jaunpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.25	47.38	51.16
		Jaunpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.35	40.45	50.41
		Simpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Namhat	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	30.79	?
CENTRAL BENGAL.	Hambergh	Pachamra (Girdi)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.32	42.00	40.71
		Hambergh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	47.32	40.71
		Sambhargur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.73	41.19	47.07
		Hambergh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	40.01	40.91
		Jhousrah Hill	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.22	38.60	43.33
		Burhi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	39.70	?
		Chakra	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	49.07	?
		Koragaha	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	7.46	?
		Kanghar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	41.64	?
	Lebardaga	Lebardaga	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.04	57.20	?
		Kanchi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.37	58.38	53.07
		Kanchi	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	50.71	43.74
		Sith	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Solima	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	33.21	?
		Mosonabad	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.86	?
		Gurwah	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
	Singbhoon	Cayabasa	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.47	53.03	53.70
		Chakradhar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	41.23	?
		Chakradhar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	35.79	?
		Chakradhar	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	41.16	?
	Manbhoon	Patuli	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.42	44.83	50.13
		Gonudpur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	32.43	46.04
		Kaphanath	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	38.04	?
		Barudabon	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	42.51	?
		Jhola	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?
		Unai	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	?	?

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 13th March 1888.

**SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 9TH
MARCH 1888.**

At the beginning of the present week conditions were those which generally accompany the commencement of the hot season in Bengal. Westerly winds prevailed over a large part of the province, temperature and pressure were high, while humidity was low; skies were clear and rainfall was entirely absent. Wind directions gradually became more southerly at the southern stations during the earlier part of the week, bringing up moderate amounts of moisture; but still the general conditions remained unaltered up till the 7th, when a slight but distinct low pressure area was formed over West Bengal. On the 8th the feeble barometric depression was well marked over Bengal, and in the wind directions of Northern India, a general indraught was noticed towards the depression, while on the 9th there was a distinct tendency to a cyclonic circulation of winds over Bengal. The formation of this depression caused weather over South-West, East and North Bengal, and Orissa to become disturbed, and on the 9th, or in some cases on the last two days of the week, local showers became numerous, the showers being heaviest in South-West Bengal. With the exception therefore of the last two days of the week, when the slight disturbance commenced, the weather in Bengal has been of ordinary hot season character, and calls for no particular remark.

Pressure.—The variations of pressure during the earlier part of the week were very small; for the first two days a rise of two or three hundredths of an inch took place, which was followed by a slight fall on the 5th of almost equal amount. A feeble increase then took place on the 6th, and in some places on the 7th as well; but on the 8th a rapid fall of the barometer took place attending the development of the depression, which amounted at some stations to about a tenth of an inch. A further fall of about a twentieth of an inch also took place on the 9th, thus slightly intensifying the feeble depression. For the whole week, taking into consideration only those stations which have recorded observations for a series of years, and which therefore yield reliable averages, the mean pressure of the province is only 0.005 inch above the normal.

Temperature.—Has on the whole steadily risen throughout the week, and some decidedly high temperatures were recorded towards its close. The average mean temperature of the whole province for the week ending 2nd March was 72.9°, while the average mean temperature for the whole of Bengal for the present week has been 76.1°; there has therefore been an increase in the mean temperature equal to 3.2° during the week; the mean temperature of the province for this period has, however, been 1.2° in excess of the normal, but the excess is to a great extent confined to Chittagong, North Bengal and Behar, where in the last-named district the excess varies from 2° to 3°.

The actual temperatures recorded, and their variation from the normal, are best seen from the figures given in the table below, where the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts of the province are compared with the normal values for the same period. The day or maximum temperatures at these stations show an excess of no less than 2.9°, while the minimum or night temperatures show an excess of only 0.9°.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 9th March 1888.

	Normal mean maxi- mum tem- perature for the week ending 9th March.	Actual mean maxi- mum tem- perature for the week ending 9th March 1888.	Variation of actual mean from the nor- mal.	Normal mean mini- mum tem- perature for the week ending 9th March.	Actual mean mini- mum tem- perature for the week ending 9th March 1888.	Variation of actual mean from the nor- mal.	Normal mean daily tempera- ture for the week ending 9th March.	Actual mean daily tempera- ture for the week ending 9th March 1888.	Variation of actual mean from the nor- mal.
Outback	91.6	83.2	+1.7	60.4	68.4	-1.0	82.0	82.4	+0.4
Calcutta	87.7	90.4	+2.7	67.1	69.4	-2.3	77.4	77.3	-0.1
Dacca	87.8	91.0	+3.1	65.1	69.4	-4.3	76.5	78.2	+1.7
Burdwan	90.9	93.3	+2.4	65.8	62.7	+3.1	78.1	78.0	+0.1
Patna	87.2	90.6	+3.4	68.7	69.8	-1.1	79.0	79.0	0.0
Gya	88.0	91.8	+3.8	62.1	69.8	-7.7	75.6	78.4	+2.8
Purneah	87.5	89.9	+2.4	57.6	59.6	-2.0	73.5	74.8	+1.3
Basariugh	84.3	85.0	+0.7	55.0	57.0	-2.0	72.0	73.4	+1.4
Darjeeling	65.8	59.0	+6.8	41.4	47.4	-6.0	48.6	52.7	+4.1

Rainfall.—Was confined to the last day or two of the week, and then usually accompanied local storms. The average rainfall has, however, been small, and in South-West and East Bengal, where the largest amounts fell, it has only equalled 0.20 inch. In Orissa and North Bengal the falls have only equalled 0.07 inch. Elsewhere rainfall has been practically absent.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 3rd of March 1888:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average range of week above or below normal mean of week.	(1) week.			Rainy days.		Percentage of month.		Since 15th May 1887.		
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in rainy days.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	97.9	66.6	89.4	67.8	78.6	-0.4	0.07	0.29	-0.22	0.2	0.7	-0.5	0.07	0.53	40.45	55.44
South-West Bengal ...	97.3	64.8	81.0	64.8	78.2	+0.5	0.20	0.35	-0.15	0.7	0.8	-0.1	0.20	0.61	40.07	53.77
East Bengal	93.3	53.0	88.0	62.5	75.7	-0.1	0.20	0.57	-0.37	0.8	0.9	-0.1	0.20	0.83	38.14	77.45
North Bengal	95.3	57.0	80.4	60.0	75.2	+1.9	0.07	0.27	-0.20	0.4	0.0	-0.2	0.07	0.15	74.32	71.60
North Behar	98.7	58.2	85.8	60.2	74.5	+2.5	Nil	0.15	-0.15	0.0	0.6	-0.2	Nil	0.17	52.57	49.13
South Behar	95.6	56.0	81.3	62.0	76.0	+2.3	0.01	0.14	-0.13	0.1	0.4	-0.3	0.01	0.28	42.78	44.70
CHURIA VARDH	89.7*	55.9*	80.0*	62.2*	74.1*	+1.5*	Nil	0.28	-0.28	0.0	0.0	-0.6	Nil	0.38	46.53	50.52

* Observations not included.

METEOROLOGICAL OFFICE, BENGAL;
The 13th March 1888

A. PEDLER,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 4th to 10th March 1888.

DATE.	TEMPERATURE.				Mean wet bulb.	HYGROMETRY.			Rain.
	Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.						Inches.		%	Inches.
March ... 4th ...	76.1	93.2	31.1	62.1	68.4	592	63.7	65	Nil
" ... 5th ...	77.4	94.1	29.7	63.7	68.6	582	61.8	62	"
" ... 6th ...	79.3	94.0	29.9	64.7	68.7	558	62.0	57	"
" ... 7th ...	79.8	93.5	26.4	67.4	70.4	618	65.0	60	"
" ... 8th ...	78.8	91.5	22.5	69.0	71.4	670	67.3	68	"
" ... 9th ...	79.2	88.3	22.4	65.9	69.3	625	65.3	69	0.16
" ... 10th ...	76.5	91.5	27.0	64.5	72.7	753	70.7	83	0.45

The mean temperature of the seven days ... 77.7
The extreme variation of temperature ... 32.5
The maximum temperature ... 94.6

The mean relative humidity ... 66
Inches.
The total fall of rain from 4th to 10th March 1888 ... 0.61

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;
The 12th March 1888.

JOHN ELLIOT,
Offg. Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 4th to 10th March 1888.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1888.		°		Inches	°	°	°	°	°	Inches	°	%			Inches	
Mar.	4th	146.2	10.8	29.933	76.0	80.8	20.2	61.6	66.1	0.527	60.4	65	SW and W	...	61	Nil
"	5th	145.9	10.5	29.906	76.1	81.6	20.3	62.3	66.3	0.517	59.8	63	NW and variable	...	51	"
"	6th	147.8	10.8	29.922	76.9	81.5	28.4	63.1	67.1	0.535	60.8	62	SW and SSW	...	82	"
"	7th	145.5	10.5	29.914	77.7	81.4	24.1	67.3	69.0	0.594	63.6	66	SW by S and SSW	...	120	"
"	8th	141.9	6.9	29.865	79.5	80.5	20.2	69.3	69.5	0.606	64.4	65	SW and WSW	...	101	"
"	9th	143.0	9.3	29.842	78.6	85.5	20.0	65.5	66.8	0.568	62.6	70	SW and variable	...	108	0.46
"	10th	145.5	8.6	29.813	77.8	89.1	23.7	63.4	70.9	0.664	67.0	70	SW and SE by S	...	131	Nil

The mean pressure of the seven days	...	...	...	Inches.
The average pressure of the corresponding period for 24 years, S. G.'s Office	...	...	...	29.884
The total number of hours of bright sunshine	...	...	...	Hours.
The maximum possible number of hours of sunshine	...	...	...	67.4
The mean temperature of the seven days	...	...	...	°
The average temperature of the corresponding period for 24 years, S. G.'s Office	...	...	...	76.5
The extreme variation of temperature	...	...	...	78.1
The maximum temperature	...	...	...	30.0
The highest velocity of the wind in one hour	...	...	...	Miles.
The highest pressure of wind on one square foot	...	...	...	13
The mean relative humidity	...	...	...	Hrs.
The average relative humidity of the corresponding period for 24 years, S. G.'s Office	...	...	...	9
The total fall of rain from 4th to 10th March 1888	...	...	...	%
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	66
The total fall from 1st January to 10th March 1888	...	...	...	89
The average fall of the corresponding period for 24 years, S. G.'s Office	...	...	...	Inches.
The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.	...	...	...	0.96
The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.	...	...	...	0.46
The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.	...	...	...	3.48
The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.	...	...	...	2.24
The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.	...	...	...
The month of the rain-gauge is one foot above the ground.	...	...	...

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The month of the rain-gauge is one foot above the ground.

■ overcast, g gloomy, d drizzling rain, p passing temporary showers, lr lightening reflection, K thunderstorm, ▲ hail, = fog, △ dew.

JOHN ELIOT,

Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;

Calcutta, 14th March 1888.

MEMORANDUM.

DURING the week ending 25th February 1888, births and deaths were registered in the principal Municipalities in Bengal at the rates, respectively, of 21·3 and 23·4 per 1,000 of population, as opposed to very nearly the same proportions, viz. 21 and 23·2 per 1,000, respectively, during the preceding week ending 18th February.

2. The following Municipalities returned the highest proportions of births and deaths :—

Births.			Deaths.		
		Ratio per mille.			Ratio per mille.
Comillah	...	88·5	Comillah	...	46·2
Utterpara	...	47·2	Suburbs of Calcutta	...	42·0
Beau'eah	...	39·4	Serampore	...	37·3
Serampore	...	37·3	Narainganj	...	37·3
Narainganj	...	37·3	Gya	...	34·8
Darbhanga	...	34·6	Purneah	...	34·6
Gya	...	31·8			

3. In comparison with the results of the preceding week, there was a sensible reduction in the death-rate from bowel-complaints, no variation in fatality from fever, the fatal results from the other diseases exhibiting only fractional increases; *vide* subjoined table :—

						Ratio per mille during the weeks ending—	
						25th Feb. 1888.	18th Feb. 1888.
Cholera	...	...	...	...	...	3·4	2·7
Small-pox	...	...	...	...	...	·03	...
Fever	...	...	...	...	...	9·1	9·1
Bowel-complaints	...	...	...	...	...	2·8	4·3
Injury	...	...	...	...	...	·5	·2
Other causes	...	...	...	...	...	7·5	6·9

4. Eliminating fever and bowel-complaints, which proved notably fatal, the former only in the Purneah town, viz., at the rate of 34·6 per 1,000 of population, and the latter in the Serampore Municipality, viz. at 11·8 per 1,000, and small-pox and injury, which did not exhibit any local exacerbation in fatality, cholera and the maladies returned under the head of "Other causes" manifested exceptional mortality in the following Municipalities :—

Cholera.			Other causes.		
		Ratio per mille.			Ratio per mille.
Suburbs of Calcutta	...	11·6	Comillah	...	34·6
Chittagong	...	9·4	Gya	...	17·8
Howrah	...	6·8	Narainganj	...	16·6
			Serampore	...	13·7
			Mozufferpore	...	12·2
			Suburbs of Calcutta	...	10·5
			Bhagulpore	...	10·0

5. The casualties in relation to *Sex*, *Class* and *Age*, were returned at the rates indicated below :—

According to Sex.			According to Class.			According to Age.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	26·3	Christians	...	30·4	Under 1 year	...	176·6
Females	...	20·0	Hindus	...	24·5	1 and under 5 years	...	25·1
Ratio of male deaths to every 100 female deaths	149		Mahomedans	...	20·4	5 " 10 "	...	11·5
			Other classes	...	36·4	10 " 15 "	...	13·3
						15 " 20 "	...	15·2
						20 " 30 "	...	15·9
						30 " 40 "	...	17·5
						40 " 50 "	...	15·6
						50 " 60 "	...	20·2
						60 years and upwards	...	64·0

R. LIDDERDALE, M.D., Deputy Surgeon-General,

The 10th March 1888.

Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of December 1887.

ORISSA CIRCLE.

TALDUNDIAH CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDIAH CANAL 27 MILES.
MACHIGONG " 4 "

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value. Rupees.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupees.	
11	1. Grain	124	124	2,600	124	2,600	
...	2. Cotton	
.....	3. Oilseeds	
.....	4. Salt	
.....	5. Piece-goods	
.....	6. Metal	
120	7. Building materials	1,662	1,662	2,165	527	765	
2	8. Miscellaneous	2	2	140	2	140	
.....	9. Fuel	
.....	10. Timber	
9 rafts	11. Bamboos	8,600 No.	8,600 No.	127	8,600 No.	127	
133 & 9 rafts	12. Total	1,788 & 8,600 No.	1,788 & 8,600 No.	6,032	653 & 8,600 No.	3,632	
.....	13. Total of same month last year	
14. Total number of boats plying cargo No.		133	133	Total tollage of month— 24 + 25 + 26			Rs. A. P. 800 1 6
15. Total number of boats plying passenger No.		18	2	20	Total tollage of same month last year		
15½. Total number of empty boats ... No.		129	17	146				
16. Total registered tonnage, cargo ... Tons.		3,133	3,133				
17. Total registered tonnage, passenger ... Tons		446	446	Memorandum of Tollage.			
18. Ton-mileage ...		1,338	53,261	54,599				
19. Estimated value of cargo Rs.		4,905	4,905				
20. Number of passengers ...		813	4	817				
21. Rafts, bamboos No.		8,600	8,600				
22. Do., bullocks "					
23. Estimated value of rafts	127	127				
24. Tollage on boats Rs.		191-6-6	603-10-0	795-0-6				
25. Compounded tollage on boats ... Rs.					
26. Tollage on rafts "		5-1-0	5-1-0				
27. Total tollage on boats per ton-mile		2-80 pies				
28. Balance due at the end of the month				
29. Balance due at the end of the month				
30. Balance due at the end of the month				
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85. Balance due at the end of the month				
86. Balance due at the end of the month				
87. Balance due at the end of the month				
88. Balance due at the end of the month				
89. Balance due at the end of the month				
90. Balance due at the end of the month				
91. Balance due at the end of the month				
92. Balance due at the end of the month				
93. Balance due at the end of the month				
94. Balance due at the end of the month				
95. Balance due at the end of the month				
96. Balance due at the end of the month				
97. Balance due at the end of the month				
98. Balance due at the end of the month				
99. Balance due at the end of the month				
100. Balance due at the end of the month				

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
127	1. Grain ...	419	519	938	58,130	933	58,130	
2	2. Cotton ...	.....	13	13	3,500	13	3,500	
2	3. Oilseeds ...	.....	33	33	3,700	33	3,700	
12	4. Salt ...	11	33	44	3,660	44	3,660	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
71	7. Building materials ...	716	204	920	9,130	204	6,700	
190	8. Miscellaneous ...	593	641	1,237	2,16,000	1,161	2,15,900	
6	9. Fuel ...	46	4	50	180	46	130	
13 rafts	10. Timber ...	.....	2,132 No.	2,132 No.	4,900	2,132 No.	4,900	
5 "	11. Bamboos ...	.....	14,250 No.	14,250 No.	310	14,250 No.	310	
410 & 18 rafts	12. Total ...	1,785	{ 1,450 & 16,382 No }	{ 3,235 & 16,382 No }	2,99,510	{ 2,439 & 16,382 No }	{ 2,96,930 }	
136 & 7 rafts	13. Total of same month last year	723	446	1,169 & 232 c.ft.	4,68,720	1,073	4,68,320	
		226 &c.ft.	6 &c.ft.			232 &c.ft.		
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	189	221	410	Total tollage of month— 24+25+26 ...			4,763 3 11
15.	Total number of boats plying passenger No.	61	62	123	Total tollage of same month last year ...			1,363 2 6
15½.	Total number of empty boats No.	211	183	394	Memorandum of Tollage.			
16.	Total registered tonnage, cargo Tons.	2,097	3,513	5,610				Rs. A. P.
17.	Total registered tonnage, passenger Tons.	1,325	1,240	2,565	1. Balance not recovered on the 1st of the month ...			6,814 10 1
18.	Ton-mileage ...	1,02,784	1,33,926	2,36,710				
19.	Estimated value of cargo Ra.	1,52,380	1,11,920	2,64,300				
20.	Number of passengers ...	1,785	1,940	3,725				
21.	Rafts, bamboos No.	.....	14,250	14,250	2. Tollage per month ...			4,763 3 11
22.	Do., timber "	..	2,132	2,132				
23.	Estimated value of rafts. ...	.....	5,210	5,210	3. Total ...			11,577 14
24.	Tollage on boats Ra.	2,174-12-9	2,458-1-3	4,632-14-0				
25.	Compounded tollage on boats ... Ra.	.....	.....	.....	4. Amount credited in the accounts of the month ...			2,793 9 1
26.	Tollage on rafts "	.....	130-5-11	130-5-11				
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-3-8	5. Balance due at the end of the month ...			8,784 4
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	0-12-9				

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		Average.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupces.	
67	1. Grain ...	291	.....	291	291	19,500	19,500
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
6	3. Oilseeds ...	8	.....	8	8	590	590
34	4. Salt ...	.....	139	139	139	11,640	11,640
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
8	7. Building materials ...	13	29	42	42	560	560
71	8. Miscellaneous ...	68	108	176	176	21,570	21,570
30	9. Fuel ...	3.7	.....	3.7	3.7	880	880
11 rafts	10. Timber ...	3,426 No.	.....	3,426 No.	3,426 No.	7,500	7,500
1 raft	11. Bamboos ...	.....	1,200 No.	1,200 "	1,200 "	20	20
216 & 12 rafts	12. Total ...	697 & 3,426 No.	276 & 1,200 No.	973 & 4,626 No.	973 & 4,626 No.	62,260	62,260
60	13. Total of same month last year ...	136	148	284	148	9,386	9,280
		Up.	Down.	Total			Rs. A. P.
14. Total number of boats plying cargo No.		148	68	216	Total tollage of month—24 + 25 + 26 ...		875 4 0
15. Total number of boats plying passenger No.		5	4	9	Total tollage of same month last year ...		118 12 6
16. Total registered tonnage, cargo Tons.		1,159	472	1,631	Memorandum of Tollage.		
17. Total registered tonnage, passenger Tons		18	17	35			
18. Ton-mileage ...		21,563	7,445	29,008	Rs. A. P.		
19. Estimated value of cargo Rs.		23,700	26,040	54,740	1. Balance not recovered on the 1st of the month ...		213 13 8
20. Number of passengers ...		10	19	29	2. Tollage per month ...		875 4 0
21. Rafts, bamboos No.		.....	1,200	1,200	3. Total ...		1,080 1 3
22. Do., timbers "		3,426	.....	3,426	4. Amount credited in the accounts of the month ...		585 8 6
23. Estimated value of rafts ...		7,500	20	7,520	5. Balance due at the end of the month ...		523 8 9
24. Tollage on boats Rs.		364-6-6	195-11-9	560-2-3			
25. Compounded tollage on boats Rs.		.....	.....	.....
26. Tollage on rafts "		313-15-9	1-2-0	315-1-9			
27. Total tollage on boats per 100 mds		.....	.....	0-0-4			
28. Total tollage on rafts per 100 cubic feet		.....	.....	6-12-11			

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
38	1. Grain ...	119½	2	121½	121½	6,312	6,312
1	2. Cotton ...	2	.....	2	2	650	650
5	3. Oilseeds ...	.....	17½	17½	17½	1,254	1,254
4	4. Salt ...	.....	22½	22½	22½	3,195	3,195
21	5. Piece-goods ...	.....	31½	32	32	9,380	9,380
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
12	7. Building materials ...	.....	109½	109½	.....	48	.....
11	8. Miscellaneous ...	1	41	42	34	4,407	3,907
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
8 rafts	10. Timber ...	.....	448 No.	448 No.	448 No.	1,344	1,344
11 "	11. Bamboos ...	.....	9,004 "	9,004 "	9,004 "	270	270
92 & 19 rafts	12. Total ...	123½	224 & 9,452 No.	347 & 9,452 No.	229½ & 9,452 No.	26,860	26,312
165	13. Total of same month last year ..	1,160	536	1,696	223	12,720	10,000
		Up.	Down.	Total.			Rs. A. P.
14.	Total number of boats plying cargo ... No.	39	53	92	Total tollage of month— 24 + 25 + 26 ...		170 10 9
15.	Total number of boats plying passenger ... No.	3	4	7	Total tollage of same month last year ...		295 11 9
15½.	Total number of empty boats ... No.	28	47	75	Memorandum of Tollage.		
16.	Total registered tonnage, cargo Tons.	246	448	694			
17.	Total registered tonnage, passenger Tons.	18	25	38			
18.	Ton mileage ...	4,235	7,729	11,964			
19.	Estimated value of cargo Rs.	7,390	17,856	25,246			
20.	Number of passengers ...	72½	82½	155	1. Balance not recovered on the 1st of the month ...		1 6 6
21.	Rafts, bamboos No.	.....	9,004	9,004	2. Tollage per month ...		170 10 9
22.	Do., buffaloes "	.....	448	448	3. Total ...		172 1 8
23.	Estimated value of rafts ...	.....	1,614	1,614	4. Amount credited in the accounts of the month ...		172 1 8
24.	Tollage on boats Rs.	50-5-6	94-9-6	144-15-0	5. Balance due at the end of the month ...		288
25.	Compounded tollage on boats ... Rs.	.....	.....	.....
26.	Tollage on rafts "	.....	25-11-9	25-11-9			
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-2-3			
28.	Ditto on rafts per 100 cubic feet ...	.....	.....	0-4-4			

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
17	1. Grain ...	48½	.....	48½	2,456	48½	2,456	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	4	4	476	4	476	
1	4. Salt ...	3	.....	3	372	3	372	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
8	7. Building materials ...	.....	76½	76½	275	.....	.....
8	8. Miscellaneous ...	.....	43½	43½	5,034	35½	4,920	
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
7 rafts	10. Timber ...	.....	88 No.	88 No.	182	38 No.	182	
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
35 & 7 rafts	12. Total ...	51½	{ 124 & 88 No.	{ 175½ & 88 No.	{ 8,795	{ 91 & 38 No.	{ 8,406	
108	13. Total of same month last year	892	357	1,249	5,862	92	4,784	
		Up.	Down.	Total.			Rs. A. P.	
14. Total number of boats plying cargo No.		18	17	35	Total tollage of month—24 + 25 + 26 ...		82 1 3	
15. Total number of boats plying passenger No.		1	2	3	Total tollage of same month last year ...		207 0 3	
15½. Total number of empty boats No.		17	31	48	Memorandum of Tollage.			
16. Total registered tonnage, cargo Tons		103	248	351				
17. Total registered tonnage, passenger Tons		4	16	20				Rs. A. P.
18. Ten-mileage ...		3,160	4,168	7,328	1. Balance not recovered on the 1st of the month ...			
19. Estimated value of cargo Rs.		2,828	5,785	8,613	2. Tollage per month ...		82 1 3	
20. Number of passengers ...		71	82	153	3. Total ...		■ 1 3	
21. Rafts, bamboos c. ft.		.....	.....	.....	4. Amount credited in the accounts of the month ...		82 1 3	
22. Do., bullahs No.		.....	88	88	5. Balance due at the end of the month ...		NZ.	
23. Estimated value of rafts ...		.....	182	182				
24. Tollage on boats Rs.		26-3-0	51-9-9	77-12-9				
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts "		.....	.....	4-4-6				
27. Total tollage on boats per ton-mile		.....	.....	0-0-2				
28. Total tollage on rafts per 100 cubic feet		.....	.....	5-0-0				

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupces.	Tons.	
1,079	1. Grain ...	8,047	630	8,677	3,36,444	8,677	3,36,444
1	2. Cotton ...	...	2	2	800	2	800
10	3. Oilseeds ...	33	59	92	10,775	92	10,775
77	4. Salt ...	...	676	676	53,344	676	53,344
11	5. Piece-goods ...	4	5	9	21,900	9	21,900
6	6. Metal ...	6	5	11	8,580	11	8,580
13	7. Building materials ...	24	8	32	220	32	220
288	8. Miscellaneous ...	618	351	969	4,09,638	969	4,09,638
22	9. Fuel ...	5	165	170	1,920	170	1,920
102 rafts	10. Timber ...	23,683 c. ft.	778 c. ft.	24,461 c. ft.	13,393	24,461 c. ft.	13,393
6 "	11. Bamboos ...	4,500 "	...	4,500 "	311	4,500 "	311
1,505 & 109 rafts	12. Total ...	8,767 & 23,183 c. ft.	1,901 & 778 c. ft.	10,668 & 28,961 c. ft.	8,57,325	10,668 & 28,961 c. ft.	8,57,325
924 & 87 rafts	13. Total of same month last year	4,707 & 18,945 c. ft.	1,408 & 418 c. ft.	6,115 & 19,363 c. ft.	6,10,518	6,115 & 19,363 c. ft.	6,10,518
		Up.	Down.	Total.			Rs. A.
14.	Total number of boats plying cargo No.	1,315	190	1,505	Total tollage of month—24+25+26 ...		11,399 2
15.	Total number of boats plying passenger No.	471	520	991	Total tollage of same month last year ...		7,014 10
16.	Total registered tonnage, cargo ... Tons	17,291	3,152	20,443	Memorandum of Tollage.		
17.	Total registered tonnage, passenger ... Tons	2,218	2,485	4,703			
18.	Total registered tonnage, empty ... Tons	2,189	3,962	6,151	Re. A.		
19.	Ton-mileage ...	5,16,177	2,12,630	7,28,807			
20.	Estimated value of cargo Rs.	6,59,768	1,83,853	8,43,621	1. Balance not recovered on the 1st of the month ...		
21.	Number of passengers ...	4,357	7,119	11,476			
22.	Rafts, bamboos c. ft.	4,500	...	4,500	2. Tollage per month ...		
23.	Do., bullahs "	23,683	778	24,461			
24.	Estimated value of rafts ...	12,485	1,219	13,704	3. Total ...		
25.	Tollage on boats Rs.	7,594-7-0	3,124-13-3	11,019-4-3			
26.	Compounded tollage on boats Rs.	...	...	...	4. Amount paid into treasury during the month ...		
27.	Tollage on rafts =	376-14-8	3-0-0	379-14-8			
28.	Total tollage on boats per ton-mile Pie	...	...	0-6-2-9	5. Balance due at the end of the month ...		
29.	Total tollage on rafts per 100 cubic feet Rs.	...	...	...

HIDGELLIE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupies.	
816	1. Grain ...	3,596	11	3,607	3,607	1,76,990	
.....	2. Cotton ...	.....	.....	.....	.....	.....
2	3. Oilseeds ...	25	.....	25	25	1,400	
15	4. Salt ...	7	120	127	127	8,950	
7	5. Piece-goods ...	.....	13	13	13	10,725	
1	6. Metal ...	.....	7	7	.....	1,600	
4	7. Building materials ...	5	46	51	51	1,315	
979	8. Miscellaneous ...	249	317	566	566	79,278	
11	9. Fuel ...	23	96	119	119	816	
5 rafts	10. Timber ...	108 c. ft.	60 c. ft.	168 c. ft.	168 c. ft.	590	
2 "	11. Bamboos ...	500 "	325 "	825 "	825 "	120	
1,835 & 7 rafts	12. Total ...	3,905 & 608 c. ft.	{ 610 & 385 c. ft.	4,515 & 993 c. ft.	{ 4,508 & 993 c. ft.	2,81,784	2,80,184
1,211 & 14 rafts	13. Total of same month last year.	2,332 & 1,935 c. ft.	307 & 572 c. ft.	2,639 & 2,507 c. ft.	{ 2,639 & 2,507 c. ft.	1,45,362	1,45,362
14.	Total number of boats plying cargo No.	950	885	1,835	Total tollage of month— 24 + 25 + 26 ...		Rs. A. P. 3,088 4 6
15.	Total number of boats plying passenger No.	36	44	80	Total tollage of same month last year ...		2,001 2 6
16.	Total registered tonnage, cargo Tons	8,074	4,029	12,103	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	280	303	583			
18.	Ton-mileage ...	116,938	58,447	175,385			
19.	Estimated value of cargo Rs.	1,95,778	85,296	2,81,074			
20.	Number of passengers ...	800	1,051	1,851			
21.	Rafts, bamboos c. ft.	500	325	825			
22.	Do., bulials "	108	60	168			
23.	Estimated value of rafts ...	530	180	710			
24.	Tollage on boats Rs.	1,930 8-3	915-14-0	2 846-6-3			
25.	Compounded tollage on boats Rs.	111-14-9	118-3-0	230-1-9			
26.	Tollage on rafts "	5-12-0	6-0-6	11-12-6			
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-3			
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	1-2-11			
					1. Balance not recovered on the 1st of the month ...	1,302 13 3	
					2. Tollage per month ...	3,088 4 6	
					3. Total ...	4,391 1 9	
					4. Amount paid into treasury during the month ...	2,875 4 6	
					5. Balance due at the end of the month ...	1,515 13 3	

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupces.	
1	1. Grain ...	11	3	14	990	14	990	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
23	3. Oilseeds ...	1	284	285	27,592	285	27,592	
8	4. Salt ...	101	.....	101	6,300	101	6,300	
25	5. Piece-goods ...	147	34	181	31,495	181	31,495	
.....	6. Metal ...	4	.....	4	14,656	4	14,656	
96	7. Building materials ...	.....	797	797	1,399	104	587	
82	8. Miscellaneous ...	69	478	547	44,247	544	44,207	
.....	9. Fuel { boat rafts	.....	.....	.....	.....	.....	.....
.....	10. Timber { boat rafts	1	.....	1	30	1	30	
.....	11. Bamboos { boat rafts	50	584	634	9,973	634	9,973	
235	12. Total ...	384	2,363	2,747	1,37,492	2,051	1,36,640	
186 & 70 rafts	13. Total of same month last year	515	1,890	2,405	1,27,760	2,150	1,21,381	
		Up.	Down.	Total.				Rs. A. P.
24.	Total number of boats ply- ing cargo No.	38	197	235	Total tollage of month— 24 + 25 + 26 ...			2,149 5 6
25.	Total number of boats ply- ing passenger No.	6	4	10	Total tollage of same month last year ...			2,076 3 3
154.	Total number of empty boats No.	133	19	152	<i>Memorandum of Tollage.</i>			
16.	Total registered tonnage, cargo Tons	528	2,726	3,254				
17.	Total registered tonnage, passenger Tons	136	108	244				
17½.	Total registered tonnage, empty boats Tons	360	107	467				
18.	Ton-milage ...	53,879	1,98,149	2,52,028				
19.	Estimated value of cargo Rs.	44,552	82,157	1,26,709				
20.	Number of passengers No.	353	251½	604½				
21.	Rafts, bamboos c. ft.	7,500	87,660	95,160				
22.	Do., bullahs "	.....	13,695	13,695				
23.	Estimated value of rafts Rs.	890	9,893	10,783				
24.	Tollage on boats "	344-7-9	1,117-8-9	1,462-0-6				
25.	Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0				
26.	Tollage on rafts "	2-5-6	534-15-6	537-5-0				
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-1-2				
28.	Total tollage on rafts per 100 cubic feet ...	.....	.....	0-7-10				
					1. Balance not recovered on the 1st of the month ...			400 7
					2. Tollage per month ...			2,149 5
					3. Total ...			2,549 13
					4. Amount credited in the accounts of the month ...			2,225 1 6
					5. Balance due at the end of the month ...			324 11 6

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.		Tons.	Rupers.	
3	1. Grain ...	31	3	34	2,158	34	2,158	
.....	2. Cotton ...	7	.....	7	10,180	7	10,180	
13	3. Oilseeds ...	1	84	85	8,417	85	8,417	
20	4. Salt ...	194	.....	194	20,100	194	20,100	
2	5. Piece-goods ...	28	.....	28	16,850	28	16,850	
.....	6. Metal ...	.....	1	1	150	1	150	
30	7. Building materials ...	1	227	228	2,512	28	2,444	
62	8. Miscellaneous ...	74	267	341	28,836	198	28,756	
8	9. Fuel ...	78	.....	78	536	78	536	
.....	10. Timber ...	.....	1	1	69	1	69	
Rafts	11. Firewood ...	.....	456	456	2,062	456	2,062	
	Bullahs ...	.....	436	436	1,511	436	1,511	
	Bamboos ...	.....	160	160	1,682	160	1,682	
138	12. Total ...	414	1,635	2,049	95,063	1,706	94,915	
212	13. Total of same month last year	421	2,035	2,456	1,26,071	2,016	1,25,852	
		Up.	Down.	Total.			Rs. A. P.	
4. Total number of boats plying cargo No.		39	99	138	Total tollage of month— 24 + 25 + 26 ...		853 15 9	
5. Total number of boats plying passenger No.		4	1	5				
5½. Total number of empty boats ...		76	18	94	Total tollage of same month last year ...		1,450 15 0	
6. Total registered tonnage, cargo ...		569	947	1,516				
7. Total registered tonnage, passenger ...		76	66	142	Memorandum of Tollage.			
7½. Total registered tonnage, empty ...		259	49	308				
8. Ton-mileage ...		37,031	38,835	75,866			Rs. A. P.	
9. Estimated value of cargo Rs.		56,724	33,084	89,808	1. Balance not recovered on the 1st of the month ...		65 7 3	
0. Number of passengers ...		969	873	1,842				
1. Rafts, bamboos c. ft.		.....	24,005	24,005	2. Tollage per month ...		853 15 9	
2. Do., bullahs "		.....	32,706	32,706				
2½. Do., firewood "		.....	34,225	34,225				
3. Estimated value of rafts Rs.		.....	5,255	5,255	3. Total ...		919 7 0	
4. Tollage on boats "		218-6-6	218-6-6	436-13-0				
5. Compounded tollage on boats and steamer Rs.		100-0-0	100-0-0	200-0-0	4. Amount credited in the accounts of the month ...		753 13 3	
6. Tollage on rafts "		108-9-9	108-9-0	217-2-9				
7. Total tollage on boats per ton-mile ...		.....	.....	0-6-1				
8. Total tollage on rafts per 100 cubic feet ...		.....	.....	0-3-9	5. Balance due at the end of the month ...		165 9 9	

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, .67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1	1. Grain ...	.....	10	10	893	10	893	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....
5	3. Oilseeds ...	11	48	59	4,987	59	4,987	
1	4. Salt ...	.....	7	7	812	7	812	
.....	5. Piece-goods ...	1	.....	1	1,930	1	1,930	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
15	7. Building materials ...	.....	256	256	9,200	.....	.....
26	8. Miscellaneous ...	35	313	348	21,471	348	21,471	
.....	9. Fuel ...	.....	.....	.....	.....	.....	.....
Rafts {	10. Timber ...	.....	195	195	1,042	195	1,042	
	11. Bamboos ...	.....	119	119	2,133	119	2,133	
48	12. Total ...	47	948	995	43,368	739	34,168	
82	13. Total of same month last year	135	1,467	1,542	78,612	1,083	62,912	
		Up.	Down.	Total				Rs. A. P.
14.	Total number of boats plying cargo No.	3	45	48	Total tollage of month— 24 + 25 + 26 ...			597 7 0
15.	Total number of boats plying passenger No.	9	10	19				
15½.	Total number of empty boats No.	23	2	30	Total tollage of same month last year ...			793 7 0
16.	Total registered tonnage, cargo Tons	59	1,155	1,214				
17.	Total registered tonnage, passenger Tons	243	246	489				
17½.	Total registered tonnage, empty Tons	106	5	111				
18.	Ton-mileage ...	6,934	35,306	42,330	Memorandum of Tollage.			
19.	Estimated value of cargo Rs.	9,125	30,168	39,293				Rs. A. P.
20.	Number of passengers ...	621½	569½	1,191	1. Balance not recovered on the 1st of the month ...			30 3 9
21.	Rafts, bamboos c. ft.	.....	17,775	17,775	2. Tollage per month ...			597 7 0
22.	Do., bullocks ..	.....	14,687	14,687				
23.	Estimated value of rafts Rs.	.....	4,075	4,075	3. Total ...			687 10 9
24.	Tollage on boats ..	47-11-0	231-4-6	278-15-6				
25.	Compounded tollage on boats Rs.	75-0-0	107-0-0	182-0-0	4. Amount credited in the accounts of the month ...			596 10 6
26.	Tollage on rafts ..	.....	136-7-6	136-7-6				
27.	Total tollage on boats per ton-mile ...	.....	.....	0-0-2-25				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-6-8	5. Balance due at the end of the month ...			81 0 3

ABSTRACT FOR THE MONTH OF DECEMBER 1887, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

CANAL.	TRAFFIC, 1887-88.		TRAFFIC, 1886-87.		REMARKS.
	During the month.	To end of the month.	During the month.	To end of the month.	
<i>Orissa Circle.</i>	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Baldanda Canal System ...	800 1 6	3,653 9 0	.....	1,500 11 4	
Kendrapara Canal System ...	4,763 3 11	30,166 13 0	1,363 2 6	26,332 13 7	
High Level, Range I ...	875 4 0	4,987 9 6	118 12 6	4,590 11 0	
Ditto, " II ...	170 10 9	2,666 3 0	295 11 9	2,443 0 6	
Ditto, " III ...	82 1 3	833 12 9	207 0 3	1,470 8 6	
Total Orissa Circle ...	6,691 5 5	42,307 15 3	1,984 11 0	36,337 12 11	
<i>South-Western Circle.</i>					
Madnapore Canal ...	11,399 2 9	90,287 13 0	7,014 10 9	81,139 3 0	
Bidgollee Tidal Canal ...	3,088 4 6	40,046 14 0	2,001 2 6	40,607 1 3	
Total South-Western Circle ...	14,487 7 3	1,30,334 11 0	9,015 13 3	1,21,737 4 3	
<i>Sone Circle.</i>					
Matua Canal System ...	2,149 5 6	19,303 7 6	2,076 3 3	16,883 4 6	
Barra ditto ...	853 15 9	11,301 15 0	1,450 15 0	14,004 13 4	
Buxar ditto ...	597 7 0	5,551 10 8	793 7 0	5,873 11 4	
Total Sone Circle ...	3,600 12 3	36,157 1 2	4,320 9 3	36,821 13 2	
GRAND TOTAL ...	24,779 8 11	2,08,799 11 5	15,321 1 6	1,94,896 14 4	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1887-88.						TRAFFIC, 1886-87.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	196	480	252 15 1	2,600	4,216	3,394 13 6	51	6	41 15 3	6,781	12,417	7,578 5 3
Total Orissa Circle ...	196	480	252 15 1	2,600	4,216	3,394 13 6	51	6	41 15 3	6,781	12,417	7,578 5 3

TOTAL NAVIGATION RECEIPTS.

CANAL.	EARNINGS, 1887-88.		EARNINGS, 1886-87.		REMARKS.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	6,944 4 6	45,702 12 9	2,026 10 3	43,916 2 2	
Madnapore Canal ...	11,399 2 9	90,287 13 0	7,014 10 9	81,130 3 0	
Bidgollee Tidal Canal ...	3,088 4 6	40,046 14 0	2,001 2 6	40,607 1 3	
Sone Canals ...	3,600 12 3	36,157 1 2	4,320 9 3	36,821 13 2	
Total ...	25,032 8 0	2,12,194 8 11	15,363 0 9	2,02,475 3 7	

A. D. McARTHUR, MAJOR, R.E.,
Under-Secy. to the Govt. of Bengal.

Calcutta,
14th March 1883.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of January 1888

Number of boats or rafts.	Description.	TOTAL (GOVERNMENT AND PRIVATE.			PRIVATE.	
		Quantity—Tons.		Value.	Quantity.	Value.
		Up.	Down.	Total.	Tons.	Rupess.
3,141	1. Grain ...	52,025	.....	52,025	52,025	36,06,029
1	2. Cotton ...	3	.....	3	3	2,000
8	3. Oilseeds ..	127	2	129	129	14,844
506	4. Salt ...	446	4,502	4,948	4,948	4,50,287
.....	5. Piece-goods ..	.....	.....	.....	.....	.....
22	6. Metal ...	32	112	144	144	41,725
116	7. Building materials	2,643	129	2,772	2,772	38,141
2,592	8. Miscellaneous* ...	21,927	1,158	23,085	23,085	23,93,920
640	9. Fuel ...	14,127	1,911	16,038	16,038	1,38,144
.....	10. Timber ...	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....
6,827	12. Total ...	91,330	7,814	99,144	99,144	66,85,090
5,181	13. Total of same month last year.	65,943	11,235	77,178	77,178	49,18,464
		Up.	Down.	Total.	Ra. A.	
14.	Total number of boats plying cargo ... No.	6,309	518	6,827	Total tollage of month— 24 + 25 + 26 ...	62,677 8
14a.	Ditto empty ..	3,800	1,333	5,133	Total tollage of same month last year ...	48,408 2
15.	Total number of boats plying passenger ... No.	315	.....	315	Memorandum of Tollage.	
16.	Total registered tonnage, cargo Tons	263,911	28,352	292,263		
17.	Total registered tonnage, passenger Tons.	881	.....	881	Ra. A.	
18.	Ton-mileage ..	1,662,075	141,760	18,03,835		
19.	Estimated value of cargo Rs.	61,38,802	5,46,288	66,85,090	1. Balance not recovered on the 1st of the month	1,712 15
20.	Number of passengers No.	327	.....	327	2. Tollage per month ...	62,677 8
21.	Rafts, bamboos cu. ft.	.....	.....	.....	3. Total ...	64,390 7
22.	Do., bullahs ..	.....	.....	.....	Ra. A.	
23.	Estimated value of rafts Rs.	.....	.....	.....
24.	Tollage on boats ..	55,731-0-6	6,946-7-6	62,677-8-0	4. Amount paid into treasury during the month	61,863 11
25.	Compounded tollage on boats Rs.	.....	.....	.....	5. Balance due at the end of the month	2,527 15
26.	Tollage on rafts ..	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	6-67 pice		
28.	Total tollage on rafts per 1400 cubic feet Rs.	.....	.....	.....

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
695	(a) Jute ...	17,539	.....	17,539	17,18,836	17,539	17,18,836	
91	(b) Jaggery ...	481	37	518	50,774	518	50,774	
2	(c) Sugar ...	17	.....	17	2,850	17	2,850	
2	(d) Tobacco ...	.....	9	9	1,750	9	1,750	
1,029	(e) Fish ...	231	.....	231	64,808	231	64,808	
10	(f) Hides ...	23	.....	23	5,132	23	5,132	
62	(g) Poultry ...	15	.....	15	12,305	15	12,305	
117	(h) Hay and straw ...	373	.....	373	13,530	373	13,530	
29	(i) Oils ...	15	303	318	44,500	318	44,500	
32	(k) Earthenware ...	35	13	48	1,546	48	1,546	
523	(m) Other miscellaneous	3,198	796	3,994	4,77,889	3,994	4,77,889	
2,592	Total Miscellaneous...	21,927	1,158	23,085	23,93,920	23,085	23,93,920	

PUBLIC WORKS DEPARTMENT. IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of January 1888.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupces.	Tons.	
6,244	1. Grain ...	18,840	1	18,841	11,92,476	18,841	11,92,476
6	2. Cotton ...	91	.....	91	51,200	91	51,200
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
62	4. Salt ...	429	259	688	62,575	688	62,575
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
259	7. Building materials ...	2,374	.....	2,374	6,996	2,374	6,996
1,142	8. Miscellaneous* ...	4,256	131	4,387	4,65,522	4,387	4,65,522
240	9. Fuel ...	3,801	44	3,845	31,749	3,845	31,749
4 rafts	10. Timber ...	2,343 c. ft.	540 c. ft.	2,883 c. ft.	1,030	2,883 c. ft.	1,030
1 "	11. Bamboos ...	40 "	.....	40 "	5	40 "	5
7,943 & 5 rafts.	12. Total ...	29,791 & 2,383 c. ft.	435 & 540 c. ft.	30,226 & 2,923 c. ft.	18,14,553	30,226 & 2,923 c. ft.	18,14,553
7,641 & 2 rafts.	13. Total of same month last year.	21,609 & 14 No.	1,003	22,612 & 14 No.	14,00,889	22,612 & 14 No.	14,00,889

* For detail see next page.

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	7,870	73	7,943	Total tollage of month— 24 + 25 + 26 ...	18,190 12 0
14a. Ditto empty "	1,536	334	1,870		
15. Total number of boats plying passenger No.	677	42	719	Total tollage of same month last year ...	13,820 15 6
16. Total registered tonnage, cargo Tons.	1,07,747	3,009	1,10,756	Memorandum of Tollage.	
17. Total registered tonnage, passenger Tons.	1,855	192	2,047		
18. Ton-mileage ...	975,138	48,144	10,23,282		Rs. A. P.
19. Estimated value of cargo ...	17,73,619	39,899	18,13,518	1. Balance not recovered on the 1st of the month ...	624 12 6
20. Number of passengers ..	2,512	3,471	5,983	2. Tollage per month ...	18,190 12 0
21. Rafts, bamboos c. ft.	40	.....	40		
22. Do., bullahs "	2,343	540	2,883	3. Total ...	18,815 8 6
23. Estimated value of rafts Rs.	655	380	1,035		
24. Tollage on boats "	17,379-10-6	784-2-0	18,163-13-0	4. Amount paid into treasury during the month ...	17,331 8 0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts "	20-3-0	6-12-0	26-15-0	5. Balance due at the end of the month ...	1,484 9 6
27. Total tollage on boats per ton-mile Rs.	.....	.....	3-41 pies		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-14-8		

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
4	(a) Jute ...	57	.....	57	5,600	57	5,600	
117	(b) Jaggery ...	619	3	622	60,970	622	60,970	
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....
9	(d) Tobacco ...	40	3	43	8,400	43	8,400	
289	(e) Fish ...	54	8	62	17,473	62	17,473	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
2	(g) Poultry ...	1	.....	1	134	1	134	
263	(h) Hay and straw...	661	.....	661	12,678	661	12,678	
35	(i) Oils ...	200	20	220	30,800	220	30,800	
99	(k) Earthenware .	111	5	116	1,620	116	1,620	
324	(m) Other miscella- neous.	2,513	92	2,605	3,27,847	2,605	3,27,847	
1,142	Total Miscellaneous ...	4,256	131	4,387	4,65,522	4,387	4,65,522	

**ABSTRACT FOR THE MONTH OF JANUARY 1888, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1887-88.			TRAFFIC, 1888-89.		
	During the month.			During the month.		
	Rs.	A.	P.	Rs.	A.	P.
Calcutta and Eastern Canals ...	62,677	8	0	3,21,918	0	9
Tolly's Nullah ...	18,190	12	0	1,08,788	7	0
Total ...	80,868	4	0	4,30,706	7	9

Calcutta, }
The 13th March 1888.

A. D. McARTHUR, Major, R.E.,
Under-Secretary to the Government of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of January 1888.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
617	1. Grain ...	348	5,372	5,720	2,79,630	5,720	2,79,630	* Only 3 mounds passed on Bhagirathi at Jangipore.
86	2. Cotton ...	.....	.....	.....	.....	.....	.....
352	3. Oilseeds ...	.....	895	895	98,377	895	98,377
2	4. Salt ...	2,418	77	2,495	2,13,897	2,495	2,13,897	
18	5. Piece-goods* ...	.....	.....	.....	375	.....	375
15	6. Metal ...	39 ¹² / ₂₈	45	84 ¹² / ₂₈	19,915	84 ¹² / ₂₈	19,915	
863	7. Building materials ...	28	101	129	12,907	129	12,907	
102	8. Miscellaneous ...	1,503	4,563	6,066	9,21,828	6,066	9,21,828	
5 rafts	9. Fuel ...	720	215	935	8,251	935	8,251	
7 "	10. Timber ...	795 c. ft.	15,840 c. ft.	16,635 c. ft.	40,904	16,635 c. ft.	40,904	
	11. Bamboos ...	.....	3,160 "	3,160 "	256	3,160 "	256
2,055 & 32 rafts.	12. Total ...	{ 5,056 ¹² / ₂₈ & 795 c. ft.	{ 11,268 & 19,000 c. ft.	{ 16,324 ¹² / ₂₈ & 19,795 c. ft.	{ 15,96,340 & 19,795 c. ft.	{ 16,324 ¹² / ₂₈ & 19,795 c. ft.	{ 15,96,340 & 19,795 c. ft.	
2,096 & 71 rafts	13. Total of same month last year	{ 8,558 & 348 c. ft.	{ 14,940 & 81,218 c. ft.	{ 23,498 & 81,566 c. ft.	{ 16,98,581 & 81,566 c. ft.	{ 23,498 & 81,566 c. ft.	{ 16,98,581 & 81,566 c. ft.	

	Up.	Down.	Total.		Rs. A. P.
1. Total number of boats plying cargo No.	871	1,181	2,055	Total tollage of month—24 + 25 + 26 ...	9,550 0 9
2a. Ditto empty boats, steamers, &c. No.	853	140	993		
3. Total number of boats plying passenger No.	715	1,023	1,738	Total tollage of same month last year ...	10,000 3 0
4a. Empty boats No.	60	31	91		
5. Total registered tonnage, cargo Tons	18,782	22,918	41,700	Memorandum of Tollage.	
6. Total registered tonnage, passenger Tons	247	346	593		
7. Ton-mileage ...	.....	.....	.....
8. Estimated value of cargo Rs.	6,03,900	9,51,280	15,55,180	1. Balance not recovered on the 1st of the month ..	338 10 8
9. Number of passengers No.	3,361	4,163	7,524	2. Tollage per month ...	9,550 0 9
10. Rafts, bamboos c. ft.	.....	3,160	3,160	3. Total ...	9,888 11 5
11. Do., bullocks "	795	15,840	16,635	4. Amount paid into treasury during the month ...	9,606 14 5
12. Estimated value of rafts Rs.	1,192	39,968	41,160	5. Balance due at the end of the month ...	281 13 0
13. Tollage on boats "	3,739-5-0	5,427-13-0	9,167-2-0		
14. Compounded tollage on boats ...	.....	.....	.....
15. Tollage on rafts Rs.	6-3-0	376-11-9	382-14-9		
16. Total tollage on boats per ton-mile ...	.....	.....	.....
17. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-14-11		

† Boats in these rivers do not pay per mile.

Abstract for the month of January 1888, as compared with the corresponding month of the previous year.

	1887-88.		1886-87.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	9,550 0 9	1,81,525 9 4	10,000 3 0	1,83,392 6 6

A. D. McARTHUR, Major, M.E.,
Under-Secretary to the Government of Bengal.

PUBLIC WORKS DEPARTMENT.—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low water in the Rivers Ganges, Bhagiruthes, Jellinghee and Brahmapootra for the month of February 1888.

RIVER GANGES.													RIVER BHAGIRATHA. RIVER JALINGHUR.		RIVER BRAHMAPUTRA.		
	Mirzapore.	Benares.	Buxar.	Dinapore.	Monghyr.	Sahabganj.	Ranpore Kasibab.	Goalundo.	Berhampore.	Barpung.	Gowhaty.						
Miles.	98.	134.	46.	177.	397.	110.	381.	84.	471.	30.	39.	130.					
	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.	Height over zero of gauge.
1st	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
2nd	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
3rd	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
4th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
5th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
6th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
7th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
8th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
9th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
10th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
11th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
12th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
13th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
14th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
15th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
16th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
17th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
18th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
19th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
20th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
21st	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
22nd	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
23rd	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
24th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
25th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
26th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
27th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
28th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
29th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170
30th	170	160	160	170	170	170	170	170	170	170	170	170	170	170	170	170	170

A. D. McARTHUR, Major, B.E.,
Under-Secretary to the Government of Bengal.

The 13th March 1888.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 10th March 1888,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 10th March 1888.			WEEK ENDING SATURDAY, THE 12th March 1887.		
	Number of bunts.	Weight of cargo.	Tollage.	Number of bunts.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	1,163	3,59,598	5,076	1,271	3,25,781	5,640
Jute ...	70	61,635	834	72	50,400	852
Firewood ...	134	61,233	840	116	68,785	1,000
Other articles ...	963	2,57,825	1,168	1,072	2,70,000	1,193
Total ...	2,330	7,43,291	10,920	2,531	7,14,966	11,681

*General remarks on the fluctuation of principal staples carried over the East Indian Railway
during month ended 28th January 1888.*

INCREASES.

Coal and coke.—There was an increase in the weight of upward traffic attended with a decrease in the earnings; the downward traffic showed increases both in weight and earnings. The increase in the upward traffic was due to despatches for Foreign railways, and that in the downward despatches is attributable to the same cause as mentioned in the remarks for December last.

Jute, raw.—Due to despatches from the Eastern Bengal State Railway *via* the Jubilee Bridge.

Other grains.—*Wheat and Pulses.*—As in December, the increases in these staples were due to scarcity in the North-West Provinces.

Minerals.—This increase was principally in lime from Raneeegunge, Jakobi and Katni.

Rice (husked and unhusked).—There was a decrease in the weight carried attended with an increase in the earnings; the former was due to decreased despatches to Howrah for export, and the latter to long lead traffic carried up-country.

Oil.—Due principally to despatches of kerosine oil from Howrah.

Seeds.—The increase was principally in linseed to Howrah for export.

Spices.—The increase was chiefly in chillies from Mokauch and Mokauch ghât to Howrah.

DECREASES.

Cotton.—Due to the traffic being diverted to Bombay owing to prices being higher there than in Calcutta.

Free-goods, European.—This decrease was in long distance traffic from Howrah to stations in the North-West and the Punjab owing to the scarcity prevailing in those provinces.

Indigo.—Due to the dye having been carried earlier this season than last.

Yamerie.—This is a recurrence of the decrease shown in December last, and was entirely in the despatches from Howrah owing to a poor demand.

Gunny.—Due to a lull in the market after the heavy despatches in December last.

Other fibres, raw.—This was principally in hemp, for which the Calcutta market this year has been unfavourable.

Wheat.—Due to want of stocks.

Brass and copper.—The decrease under this head is attributed to a rise in the price.

Opium.—Due to Government arrangements for despatch.

Railway material, European.—Due to a decrease in the long distance despatches from Howrah.

Sugar, refined and unrefined.—The long distance traffic from stations in the Dinapore district was poor.

Coal.—The decrease was nominal.

Tobacco.—Due to ordinary fluctuation of trade; the decrease was principally in despatches from Patna ghât and the Tirhoot State Railway.

ALLEN MEARS, *Deputy Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 9th March 1888.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of December 1887, as compared with the same month of the previous year.

STAPLES.	1887.		1886.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1887.	1886.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	7,382	3,142	2,507	702	10,474	3,269	7,205	.....
Cotton, raw	62	180	0	0	213	18	225	.....
Cotton, twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,097	113	2,062	190	2,240	2,263	.....	23
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	1,552	3,000	508	1,544	0,771	2,053	4,719	.....
5.—Others	623	7,005	282	1,107	7,628	1,389	6,239	.....
Hides and Skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	17	611	37	791	628	828	.....	200
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed		4,343	.....	3,744	4,843	3,711	580	.....
b.—Unscrowed	10	27,490	1	19,943	27,500	19,944	7,556	.....
2.—Gunny-bags and cloth	276	1,687	194	1,698	1,963	1,802	161	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought								
4.—Iron	782	314	1,126	140	896	1,265	.....	369
5.—Tin								
6.—Others								
Oils—								
2.—Kerosene	278	21	351	.....	234	351	.....	118
3.—Others	180	32	127	17	221	141	77	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	122	657	432	139	779	671	208	.....
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Hotelmate	67	659	24	316	626	344	282	.....
3.—Others	359	214	204	191	564	395	169	.....
Railway plant and rolling-stock	2,333	804	2,303	779	3,164	3,082	82	.....
Salt	1,395	33	3,374	0	2,008	3,433	.....	1,425
Sugar—								
1.—Unmired								
2.—Undrained	399	60	214	184	459	398	61	.....
Tea—								
1.—Foreign								
2.—Indian		1,534	.....	1,500	1,534	1,500	.....	34
Wood—								
1.—Timber	36	153	.....	.....	243	.....	243	.....
2.—Firewood	1,211	28	1,719	67	1,237	1,786	.....	549
Tobacco	78	040	63	423	1,024	480	538	.....
All other articles of merchandise—								
1.—Unmanufactured								
2.—Manufactured	3,409	2,238	2,462	1,257	5,647	3,719	1,928	.....
Hay, straw, and wool (C. & S.E. Section)	318	.....	501	0	318	510	.....	192
Total	23,726	57,048	14,470	34,024	30,771	53,394	30,323	2,944

Excludes local traffic of the Dacca Northern Bengal, and Kaunia and Dhanu Railway during 1886.

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of December 1887.

INCREASES.

	Tons.
Coal	7,205
From the East Indian Railway for railway and flotilla purposes and for the public.	.....
Grain	10,968
Good crops and a favourable market.	.....
Jute	8,155
Grain contributed about half the above quantity and Serajganj and the Northern section the remainder.	.....
Tobacco	538
Increases in despatches from Rungpur, Kaunia and Dumar principally.	.....

DECREASES.

	Tons.
Metals	369
This decrease can only be attributed to ordinary trade fluctuations.	.....
Salt	1,425
Decrease in despatches of hide salt to Dacca and other hide-exporting-stations.	.....
Firewood	549
Falling off in despatches from the Southern section, Champabati and Banars principally.	.....

CALCUTTA, the 12th March 1888.

F. P. QUINLAN, Examiner of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of December 1887, as compared with the same month of the previous year.

STAPLES.	1887.		1886.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1887.	1886.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	2,407	.....	1,374	.....	2,407	1,374	1,233	.....
Cotton, raw	1	.....	.....	.....	1	.....	.....	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	103	1	100	.....	103	100	.....	28
Grains—								
2.—Rice	2	600	3	164	602	167	535	.....
3.—Others	20	43	114	5	60	116	.....	47
Hides and Skins—								
1.—Hides of cattle—								
a.—Undressed	.....	21	.....	75	21	75	.....	54
Jute—								
1.—Raw—								
a.—Screwed	.....	10	.....	.....	10	.....	10	.....
b.—Unscrewed	.....	971	.....	260	971	260	702	.....
2.—Gunny-bags and cloth	8	1	0	4	0	10	.....	8
Metals—								
1.—Copper, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
2.—Brass, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
3.—Brass and copper, wrought	.....	.....	.....	.....	.....	.....	.....	.....
4.—Iron	41	17	73	65	58	137	.....	70
5.—Tin	.....	.....	.....	.....	.....	.....	.....	.....
6.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oils—								
2.—Kerosene	44	.....	54	.....	44	54	.....	10
3.—Others	83	.....	34	.....	83	31	52	.....
Oilseeds—								
1.—Linsed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Rape and mustard	.....	.....	.....	.....	.....	.....	.....	.....
3.—Flax or gingelly	.....	.....	.....	.....	.....	.....	.....	.....
4.—Rice	35	■	270	1	47	290	.....	233
5.—Castor	.....	.....	.....	.....	.....	.....	.....	.....
6.—Poppy	.....	.....	.....	.....	.....	.....	.....	.....
7.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Provisions—								
2.—Betelnuts	2	545	6	316	547	322	225	.....
3.—Others	67	40	22	51	127	73	54	.....
Railway plant and rolling-stock	161	87	46	37	244	83	165	.....
Salt	120	.....	140	.....	120	146	.....	17
Sugar—								
1.—Unrefined	8	32	2	101	40	103	.....	63
2.—Unrefined	.....	.....	.....	.....	.....	.....	.....	.....
Wood—								
1.—Timber	21	■	10	11	44	80	14	.....
2.—Firewood	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco	30	17	30	8	25	47	8	.....
All other articles of merchandise—								
1.—Unmanufactured	.....	.....	.....	.....	.....	.....	.....	.....
2.—Manufactured	300	178	400	104	547	584	.....	■
Total	3,605	2,768	2,600	1,361	6,313	2,961	2,189	577

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of December 1887.

INCREASES.							Tons.
Coal	.....	.....	.....	.....	.....	.....	1,233
For Railway and Flotilla purposes.	.....	.....	.....	.....	.....	.....	.....
Rice	.....	.....	.....	.....	.....	.....	525
Principally from Singha and Khulna.	.....	.....	.....	.....	.....	.....	.....
Jute	.....	.....	.....	.....	.....	.....	712
From Khulna and the Magura and Madaripore districts.	.....	.....	.....	.....	.....	.....	.....
Betelnuts	.....	.....	.....	.....	.....	.....	225
For export to British Burmah.	.....	.....	.....	.....	.....	.....	.....
Railway plant	.....	.....	.....	.....	.....	.....	165
For repairs and renewals.	.....	.....	.....	.....	.....	.....	.....
DECREASES.							Tons.
Seeds	.....	.....	.....	.....	.....	.....	233
Depression in the London market.	.....	.....	.....	.....	.....	.....	.....

CALCUTTA, the 13th March 1888.

F. P. QUINLAN, Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1883, on 1,513½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	253,050	3,28,206 14 0*	27,50,227 20	8,15,452 2 3	20,500 14 0	9,31,211 14 3	59,333	105,401	173,425
Or per mile of railway ...	167	216 13 1	18 0 0	539 6 1	13 0 0	615 12 8	...	...	...
For previous 8 weeks of half-year ...	2,181,205	25,61,776 7 0	2,28,80,293 10	61,28,931 3 0	1,70,325 2 4	61,77,062 12 4	530,565	852,043	1,382,608
Total for 8 weeks ...	2,434,255	28,92,983 8 0	2,56,30,923 10	69,71,363 5 3	1,90,908 0 8	61,67,284 10 7	600,428	957,444	1,557,872
COMPARISON.									
Total for corresponding week of previous year ...	270,558	3,06,823 9 4	26,57,136 20	7,19,861 12 6	18,925 15 9	10,45,147 3 7	64,595	110,734	175,731
Per mile of railway corresponding week of previous year ...	178	202 9 9	17 0 0	475 2 6	12 1 7	689 13 10	...	...	...
Total to corresponding date of previous year ...	2,300,020	26,80,487 10 0	2,38,00,223 20	61,64,757 14 10	1,68,930 0 0	60,14,215 14 4	614,870	1,002,780	1,617,650

* The increase in coaching traffic is due to the running of Troop extra trains, and mule specials.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
1,513	10,45,147	690	1,513½	9,91,222	657	1,515	4,32,03,123	595	1,516½	4,20,30,980	606	...	4,38,144

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1888, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,180	7,265 10 0	18,011 20	1,335 15 8	53 10 0	8,653 3 0	1,828	568	2,396
Or per mile of railway ...	247	127 9 4	314 0 0	23 0 0	9 15 0	151 6 4	...	...	...
For previous 8 weeks of half-year ...	109,561*	50,530 1 6*	2,06,364 20†	10,291 8 0†	308 12 0†	70,062 5 0	14,050	1,724	15,774
Total for 8 weeks ...	123,741	66,804 11 0	2,24,375 0	18,331 7 0	392 6 0	85,550 8 0	16,484	6,250	22,734
COMPARISON.									
Total for corresponding week of previous year ...	14,760	7,062 8 6	40,896 20	2,046 0 0	11 3 0	11,009 1 6	1,708	626	2,334
Per mile of railway corresponding week of previous year ...	258	123 2 0	710 0 0	34 4 0	1 0 7	193 7 0	...	...	...
Total to corresponding date of previous year ...	121,737	65,261 14 8	4,00,140 0	24,000 2 3	526 3 0	84,253 4 11	16,800	7,496	24,296

* Added No. of passengers 1,127 and deduced Rs. 149 0 0
† Deducted Mds. 213 and " 18 0 0 on account of differences between the approximate and audited returns from week ended 7th to 28th January 1888.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 5TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.
57½	11,005	192	57½	8,658	151	57½	4,00,353	161	57½	4,61,045*	180	...	21,347

* Deducted Rs. 122 on account of difference between the approximate and audited returns up to week ended 28th January 1888.

DILDARNAGAR-GHAZIPUR STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1888, on 12 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. B.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,410	409 13 8	25,728 20	584 4 0	8 0 0	1,003 1 8	3,772	150	4,024
Or per mile of railway ...	...	34 2 5	...	49 0 4	0 10 8	84 13 8	...	...	...
For previous 8 weeks of half-year ...	25,464	3,987 1 0	1,60,500 20	9,579 10 0	70 3 0	7,637 14 0	2,716	1,512	4,228
Total for 9 weeks ...	26,874	4,396 14 0	1,86,228 20	10,163 14 0	84 3 0	8,645 15 0	3,053	1,662	4,715
COMPARISON.									
Total for corresponding week of previous year ...	2,187	328 5 7	15,186 0	287 8 0	10 4 0	835 15 7	3,319	153	3,472
Per mile of railway corresponding week of previous year ...	...	41 13 10	...	23 15 2	0 13 8	69 10 8	...	...	...
Total to corresponding date of previous year ...	27,618	4,629 7 2	1,51,628 20	9,809 5 0	50 3 3	9,387 15 5	3,120	1,594	4,714

* Deducted No. of passengers 238 and Rs. 200 0 0 } on account of differences between the approximate and audited returns for a week ended 7th to 28th January 1888.
 † Ditto Mds. 16,605 and " 1 0 0 }
 ‡ Ditto " 0 0 0 }

Approximate Statement of gross receipts of the Dildarnagar-Ghaziपुर State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 3RD MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
12	396	70	12	1,900	84	12	44,528	77	12	41,174*	77	...	36.

* Deducted Rs. 267, being the difference between the approximate and audited returns from 1st to week ended 28th January 1888.

SINDIA STATE RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1888, on 74½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. B.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	4,607	3,465 8 0	75,678 20	3,279 7 0	133 11 0	6,883 10 0	687	1,562	2,449
Or per mile of railway ...	...	46 5 3	...	43 13 0	1 13 8	92 0 3	...	...	...
For previous 8 weeks of half-year ...	39,359	29,550 7 0	7,40,571 10	36,010 3 0	260 0 0	66,567 0 0	3,264	14,085	17,349
Total for 9 weeks ...	43,966	33,015 15 0	8,16,252 36	39,289 10 0	1,069 1 0	73,410 15 0	5,947	15,147	21,094
COMPARISON.									
Total for corresponding week of previous year ...	4,738	4,477 14 0	1,10,943 0	4,531 14 0	82 10 0	9,012 8 0	723	1,441	2,164
Per mile of railway corresponding week of previous year ...	...	59 13 10	...	60 13 0	1 1 8	121 13 2	...	...	...
Total to corresponding date of previous year ...	52,280	39,408 12 4	9,77,258 30	49,606 13 0	804 7 3	88,841 0 7	5,231	11,053	16,284

* Added No. of passengers 18 and deducted Rs. 207 0 0 } on account of differences between the approximate and audited returns from week ended 7th to 28th January 1888.
 † Ditto Mds. 20,319 and " 14 0 0 }
 ‡ Ditto " 23 0 0 }

Approximate Statement of gross receipts of the Sindia State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 3RD MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
74½	125	70	74½	2,716	94	74½	2,71,678	104	74½	2,02,567*	114	21,000	...

* Deducted Rs. 100 on account of differences between the approximate and audited returns up to week ended 28th January 1888.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 3rd March 1888, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	20,533	5,081 13 0	10,174 10	338 14 0	6 4 0	5,064 15 0	845	83	928
Or per mile of railway	.....	226 10 8	.....	15 2 3	0 4 8	226 1 5	.....	.....	.....
For previous 5 weeks of half-year	165,235*	42,329 10 0†	68,955 0†	2,377 5 0†	49 9 0†	41,946 8 0	7,316	630	7,946
Total for 9 weeks	185,768	47,411 7 0	79,129 10	2,715 3 0	55 13 6	47,451 7 0	8,161	713	8,874
COMPARISON.									
Total for corresponding week of previous year	20,142‡	5,196 2 9	10,245 0	354 7 0	9 8 0	5,561 12 9	904	64	968
Per mile of railway corresponding week of previous year	.....	233 10 0	.....	16 11 11	0 6 7	249 15 6	.....	.....	.....
Total to corresponding date of previous year	183,752‡	47,330 4 4	76,788 30	2,425 0 0	61 12 3	49,823 9 7	8,750	624	9,374

* Deducted No. of passengers 1,010 and Rs. 311†

† Added Mds. 440 and

‡ Ditto

on account of differences between the approximate and audited returns from week ending 7th to 28th January 1888.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 6TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1888.	Total decrease in 1888.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
22½	Rs. 5,562	250	22½	Rs. 5,905	268	22½	Rs. 2,201,626	212	22½	Rs. 2,43,889*	109	Rs. 17,313	.....

* Deducted Rs. 308 on account of difference between the approximate and audited returns up to week ending 28th January 1887.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd March 1888, on 37½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	3,371	1,337 0 0	13,024 0	258 0 0	9 8 0	2,234 0 0	509	154	663
Or per mile of railway	124	49 1 0	474 0	32 0 0	0 5 0	81 15 0	.....	.....	.....
For previous 5 weeks of half-year	26,404	9,500 0 0	1,40,762 0	7,217 0 0	208 0 0	17,695 0 0	4,072	3,461	7,533
Total for 9 weeks	29,775	10,837 0 0	1,53,786 0	8,105 0 0	278 0 0	19,519 0 0	4,581	3,715	8,296
COMPARISON									
Total for corresponding week of previous year	3,371	1,318 8 8	13,853 20	644 15 0	22 4 4	1,925 18 8	599	397	996
Per mile of railway corresponding week of previous year	124	45 13 0	608 0	28 11 0	0 13 0	70 8 0	.....	.....	.....
Total to corresponding date of previous year	26,320†	10,337 9 0	1,39,481 0	6,878 4 0	205 6 8	17,722 8 0	4,603	3,323	7,926

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhathi State Railway.

RECEIPTS FOR WEEK ENDING 6TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1886 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	
37½	Rs. 1,916	70	37½	Rs. 2,234	88	37½	Rs. 60,834	61	37½	Rs. 67,465	67	Rs. 7,231	.....

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd March 1888, on 259 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Traffic for the week on 259 miles open	37,582	Rs. A. P. 15,091 1 0	Mds. s. 2,50,203 10	Rs. A. P. 23,342 1 0	Rs. A. P. 3,783 0 0	Rs. A. P. 42,554 3 8	5,887	0,072	15,829
per mile of railway	145	0 0 0	889 0	90 4 0	3 0 0	153 13 0*	.....	.....	.....
previous 3 weeks of half-year	350,551	1,41,825 15 0	16,52,525	1,70,375 14 6	29,550 15 3	3,41,433 12 9	51,358	67,744	122,102
Total for 9 weeks	388,133	1,57,217 0 0	18,92,740	1,93,758 0 0	33,314 0 0	3,84,840 0 0	60,245	77,718	137,961
COMPARISON.									
for corresponding week of previous year on 246 miles open	35,241	14,007 10 7	1,97,619 0	19,077 8 0	3,028 7 1	26,183 2 8	5,402	7,003	12,405
per mile of railway	147	57 15 0	803 0	77 9 0	4 0 0	106 8 0*	.....	.....	.....
to corresponding date of previous year	349,970	1,41,435 9 10	14,65,200 10	1,44,126 15 0	27,300 11 11	3,12,858 4 0	51,250	50,274	101,524

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 5TH MARCH 1887.			RECEIPTS FOR WEEK ENDING 3RD MARCH 1888.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 5TH MARCH 1887.			TOTAL RECEIPTS FROM 1ST APRIL 1887 TO 3RD MARCH 1888.			Total increase in 1887-88.	Total decrease in 1887-88.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
246	26,183	147	259	42,554	165	246	14,81,001	125	259	16,38,383	140	2,07,382	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 26th February 1888	...	...	9,519
Corresponding week last year	...	...	8,441
Increase	...	...	1,078
Receipts from 1st January to 26th February 1888	...	...	52,855
From 1st January to 26th February 1887	...	...	46,876
Increase	...	...	5,979
Miles open, week ending 26th February 1888	...	...	51
Corresponding week last year	...	...	51
Receipts per mile open, week ending 26th February 1888	...	...	Rs. A. P. 186 10 4
Corresponding week last year	...	...	165 8 2
Increase	...	...	21 2 2

Darjeeling, the 5th March 1888.

H. BIRCH, Acting Secretary, D.-H. Ry.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, MARCH 21, 1888.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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EXTENSION OF THE REVENUE MONEY ORDER SYSTEM.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 20th March 1888.

RESOLUTION.

READ—

- A memorial from Zemindars of the Chittagong district, received 28th March 1884, praying to be permitted to remit the Government revenue, cesses, &c., by postal money-orders.
- A letter dated 1st August 1886, from the Tihoote Landholders' Association, and a petition dated 6th March 1887, from a Zemindar of Sheropore in Tihoote, praying as above.
- A petition from Messrs. Bird and Company, dated the 15th December 1884, suggesting that a postal money-order may be treated as equivalent for money or Government securities under section 15 of Act XI of 1859.
- A letter No. 62, dated 23rd December 1887, from the Honorary Secretary to the East Bengal Landholders' Association, urging that the present maximum limit for revenue money-orders be raised to Rs. 100.

The Government of Bengal has from time to time received memorials from zemindars representing the inconvenience which they experience in having to

pay their land revenue at district head-quarters, often situated at a great distance from their residences, and requesting permission to transmit such dues by postal money-orders. The Board of Revenue and Collectors, when first consulted as to the proposed arrangement, represented that the difficulties would be very considerable; but afterwards, on considering a complete scheme framed by the Postmaster-General, Bengal, for giving effect to the wishes of those concerned, they viewed the suggestion with greater favour. In October, 1886, the system of payment by postal money-orders was accordingly introduced experimentally in the Dacca and Burdwan Divisions for land revenue demands of less than fifty rupees a year, and, having proved successful within these local limits, it was extended in 1887 to all the districts of Lower Bengal. It is understood that the concession thus made has been generally appreciated, and the Lieutenant-Governor has now much pleasure in providing, at the suggestion of the Board of Revenue and the Postmaster-General, that from the first day of April it shall extend to all demands on account of land revenue, of whatever amount, and also to Zemindary Dāk, Road, and Public Works cesses. The rules upon the subject given below are published for general information.

2. Other public demands may be paid at the option of the payer by ordinary postal money-orders, provided that the particulars given in the accompanying letters are sufficient for the department concerned.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

RULES RELATING TO REVENUE MONEY ORDERS.

These rules are divided into five parts:—

PART I.—Form of Revenue Money Order.

PART II.—Issue of Revenue Money Orders.

PART III.—Payment of Revenue Money Orders.

Section A.—Payment from Disbursing Offices at the Head quarters of districts.

Section B.—Procedure to be followed in the Collectorate.

PART IV.—Treatment of Revenue Money Orders not accepted by the Collector.

PART V.—Disposal of Acknowledgements.

PART I.

THE FORM OF REVENUE MONEY ORDERS.

1. The Revenue Money Order form is divided into four parts, viz.—

- (a) the Money Order,
- (b) lower portion of Money Order or the Receipt,
- (c) the Coupon or Challan,
- (d) the Acknowledgment.

2. Parts (a) and (b) require no description as they are exactly like the corresponding portions of the ordinary inland Money Order form. Parts (c) and (d) are considerably larger than the Coupon and Acknowledgement of an ordinary Money Order. Part (c) contains on one side all the particulars required by the Treasury and on the reverse instructions for remitters of Revenue Money Orders. Part (d) is on one side a duplicate of the Challan and is returned to the remitter as his receipt; on the reverse of this part are the remitter's name and address.

3. This form is to be used for remittances of land revenue, Road and Public Works Cess and zemindari dāk cess, and for no other purpose.

4. The forms of Revenue Money Order should be freely distributed among the revenue-paying classes, and no restrictions whatever should be placed in the way of zemindars obtaining these forms.

5. Every Postmaster, Sub-Postmaster and Branch Postmaster will be personally responsible that a sufficient supply of Revenue Money Orders is always available in his office. In cases of emergency, supplies may be obtained by telegraph direct from the Stock Depot of the Circle. Divisional Superintendents and Inspectors, when visiting Offices, will see that a sufficient supply of Revenue Money Order forms is available, and mention in their diaries and inspection reports that they have done so.

PART II.

ISSUE OF REVENUE MONEY ORDERS.

6. Revenue Money Orders are issued from every Head, Sub and Branch Post Office under the rules which govern the issue of ordinary Indian Money Orders. The following paragraphs contain additional instructions which relate solely to the issue of Revenue Money Orders.

7. The Rules in the Postal Guide fixing the limit of value of a single ordinary Inland Money Order and the limit of the aggregate value of the money orders issued in one day by the same remitter to the same payee apply to Revenue Money Orders. The rule prohibiting the inclusion of pies (fractions of an anna) in the amount of a Money Order is not applicable to Revenue Money Orders, which may be for amounts including any fraction of an anna not less than one pie.

8. The Office of Issue will help the remitter in making the requisite entries, and, if necessary, will make entries for him in the form of a Revenue Money Order, but no fee or any other gratification whatsoever is to be demanded or accepted, either directly or indirectly, by any official of the Postal Department for this service. Disregard of this order will be punished by dismissal of the official in fault, who will, moreover, be liable to any further penalties provided by law.

9. The Office of Issue is responsible that no Revenue Money Order is issued of which the Coupon (Challan) is blank or is not completely filled up. The Post Office has no means of ascertaining the correctness of the information supplied by a remitter: all that it is necessary to see is that entries are made against every printed item in the Coupon (Challan), and that the Money Order is not for a larger sum than is allowed by the rules for ordinary Inland Money Orders. The spaces in the Acknowledgment and challan for the entry of interest and expenses (khuracha) are intended to meet the requirements of remitters, who are in arrears as regards the payment of their cesses and have incurred liabilities for interests, process fees, or other costs of proceedings.

10. The letter "R" should be written before the number of every Revenue Money Order, and this mode of distinguishing Revenue Money Orders should be adopted wherever the number is entered.

11. The number assigned to a Revenue Money Order by the Head Office or Sub-office of Issue will also be entered at the top of the Coupon (Challan) acknowledgement by the Money Order Clerk of the Head Office or the Sub-Postmaster of the Sub-office of Issue as the case may be.

12. On the 5th of every month Head and Sub-offices will prepare a return (Form *R.M.O.*) of all Revenue Money Orders issued during the last month, and forward the same to the Disbursing Postmaster who will compile a General District Return and submit it to the Head of the circle not later than the 15th of the month following that to which it relates. Branch Offices will not submit returns, as Revenue Money Orders issued from such offices will be included in the returns of the Account Offices to which they are attached. The district return submitted by the Disbursing Postmaster will be in Form *R.M.O.*

PART III.

PAYMENT OF REVENUE MONEY ORDERS.

SECTION A.—*Procedure in the Disbursing Office.*

13. When the Revenue Money Orders are in all respects ready to be handed over to the Postman, a list in duplicate (Form *R.M.O.*) should be made out by the Money Order Clerk, and the entries in the money column of the list should be carefully totalled. The date of stamp of the office of payment should be impressed in the space provided for it on the Coupon (Challan) of each Money Order.

14. The Money Orders, both copies of the list, and a slip receipt (Form *R.M.O.*) duly filled up, should then be made over to the Postman for delivery at the Collectorate, the Postman's receipt for the documents being taken in the usual manner in the Register of Money Orders received.

15. The Postman will deliver all the documents mentioned in paragraph 14 to the treasury officer (or other responsible official authorized by the Collector, in writing, to receive Revenue Money Orders and whose name has been communicated by the Collector to the Postmaster) and will take back to the Post Office the slip receipt duly signed by the officer receiving the Money Orders. The slip receipt will be kept by the Money Order Clerk under lock and key.

16. When the original list, duly signed by the treasury officer or other authorized officer, is received back, along with the refused Money Orders (if any), the Postmaster will give in exchange for the list a treasury voucher (Form *AC—17*) representing the value of the Money Orders accepted, as shown in the certificate at the foot of the list. The Money Order Clerk will report to the Postmaster if the original list (with any refused Money Orders) is not received back at latest on the day following that on which it was sent to the Collectorate.

17. The Postmaster should on no account give a treasury voucher, in payment of Revenue Money Orders, without receiving the original list with the certificate of acceptance written at the foot thereof.

18. The Postmaster will be responsible always to have sufficient funds at his credit in the district treasury to meet Revenue Money Order demands, and it will be his duty, when giving a treasury voucher, to see that there are funds in the district treasury to meet it.

19. The original list and the slip receipt will be filed together by the Money Order Clerk. The refused Money Orders (if any) will be dealt with in accordance with the instructions laid down in Part IV of these rules.

20. On receipt of the Money Orders, together with the receipts and acknowledgments duly signed, the Money Order Clerk will examine and compare all the documents with the original list already in his possession, and with the duplicate presented to him along with these documents, and, if all are found correct, will sign the duplicate list and return it to the Collectorate official who brought back the documents to the Post Office.

21. The Money Order Clerk should be particularly careful to see that he receives from the Collectorate an acknowledgment for every Money Order accepted, and that every acknowledgment which he receives is in acknowledgment of the full amount of the Money Order to which it appertains.

22. The Money Orders received back from the Collectorate, with their receipts, will be entered in the Journal of Money Orders paid, and be disposed of in the usual manner. The acknowledgments will be returned to the remitters in the manner described in Part V of these rules.

23. The amount of the treasury voucher will be entered in the Post Office and Treasurer's cash day books and the cash account on the receipt side opposite the item "Drawn from District Treasury," and will be included in the sum entered on the disbursement side under the head "Amount of Money Orders paid." All these entries must be made on the same date. The amount will also appear in the Treasury account as money drawn from the District Treasury, and if the date of entry in the Treasury account differs from that of the entries mentioned above, the difference must be explained in the Treasury suspense account.

24. Before the duplicate list is finally returned to the Collectorate, the Money Order Clerk will carefully compare it with the original, and see that they are exactly alike, any remark recorded in the one list (either in the Collectorate, or by the Money Order Clerk, or the Postmaster) being copied in the other list.

25. It will be the duty of the Money Order Clerk to report to the Postmaster if the receipted Money Orders, with the acknowledgments and the duplicate list, are not returned to him on the day on which the Treasury voucher was sent to the Collectorate.

26. The Money Order Clerk will report to the Postmaster every case in which the Coupon (Challan) of a Revenue Money Order received by him is blank or is imperfectly filled up. Whenever a Revenue Money Order is refused through any fault or omission on the part of the office of issue, the matter should be reported by the Postmaster to the Superintendent.

27. On the 5th of every month the Money Order clerk will prepare a return (Form E. M. O.) of all Revenue Money Orders received during the last month, and this return will be submitted by the Postmaster to the head of the circle along with the District Return of Revenue Money Orders issued.

SECTION B.—*Procedure to be followed in the Collectorate.*

28. On receipt of the Money Orders, with other documents, in the Collectorate, the treasury officer, or other responsible official authorised as above (see rule 15) to receive Revenue Money Orders, will carefully compare the entries in the list with the Money Orders, and, when satisfied of their correctness, will sign the slip receipt and hand it over to the postman who has brought the documents to the Collectorate, retaining the other papers for subsequent disposal.

29. The next business to be done in the Collectorate will be the careful examination of the Money Orders to see that the necessary particulars of remittance are given in each case and that the Money Orders can be accepted. This examination should be made by the Towji Navises of the Land Revenue and Cess offices and by the Certificate Department if a certificate has issued on account of Road and Public Works Cess. If the amounts due on account of any cess, interest and expenses are wrongly distributed by the remitter in the Money Order, the Cess Department will correct the distribution. It is not necessary at this stage that the Money Orders should be sent to or examined by the Magistrate's office even when they contain remittances of zamindari dâk cess. No Money Order should be refused provided that the remittance is one to which the system applies, and that the particulars required by the rules and form are given. The fact that the amount is remitted is less or more than is due is not a ground for refusal. If more than is due is remitted, the excess should be credited as a payment in advance; if less than is due is remitted, it should be treated as a payment on account. When a Money Order is refused, the ground of refusal must be endorsed on the Money Order.

30. The original list, together with the refused Money Orders (if any), must be returned to the Post Office, and a treasury voucher be obtained immediately on the certificate of acceptance being signed. The officer signing the certificate will be responsible that the check prescribed in paragraph 28 has been carried out, and that the original list, with the certificate duly endorsed, is returned to the Post Office on the day of receipt, or at latest on the following day.

31. On receipt of the treasury voucher from the Post Office, the treasury officer will to the same day credit the amount thereof under the appropriate heads of account — remittances received by means of Money Orders from the persons concerned, and will charge the amount against the monthly letter of credit of the Postal Department as money paid to the Disbursing Postmaster.

32. After the amount of the treasury voucher has been credited and debited in the Treasury accounts, the acknowledgments will be signed by the Accountant.

33. The Money Orders will then be signed by the Treasury officer or other officer authorised as above to receive them, and that officer, after detaching the Coupons (Challans) from the Money Orders, will return the original orders, with the receipts, acknowledgments, and the duplicate list, to the Post Office and retain the Challans in the Collectorate. The Challans should then be sent to the Land Revenue, Road Cess and Zemindary Dak offices in the order named so that the remittances may be entered in the departmental registers. The Challans should be initialled by a responsible officer of each department and then be returned to the Collectorate.

34. The original Money Orders, with their receipts and acknowledgments, must be returned by the Collectorate on the day on which the Treasury voucher is received. This period is on no account to be exceeded.

35. When the duplicate list, with the Postmaster's acknowledgment for the documents returned to him written thereon, is received back from the Post Office, it should be attached to the challans and filed in the Collectorate.

PART IV.

TREATMENT OF REVENUE MONEY ORDERS NOT ACCEPTED BY THE COLLECTORATE.

36. If the Collector or the officer to whom he delegates authority in this matter declines to accept a Money Order, because of the omission of necessary particulars in the Coupon (Challan) or other cause, the Money Order will be treated as refused and be disposed of in the usual manner.

PART V.

DISPOSAL OF ACKNOWLEDGMENTS.

37. The acknowledgments appertaining to Revenue Money Orders received from the Collectorate will be sorted separately for each Office of Issue and enclosed in envelopes (Form ⁹R.M.O.) addressed to the Postmasters of those offices; the numbers of the Money Orders to which the acknowledgments appertain being detailed on the back of the envelopes.

38. These envelopes will be entered in detail in a special memorandum book (Form ⁷R.M.O.) and be despatched as letters registered on Postal Service. The total number of acknowledgments closed in each envelope will be the registered number assigned to that envelope.

39. On arrival in the Office of Issue, the envelopes will be opened and the acknowledgments contained in each envelope compared with the entries on the back thereof. The acknowledgments will then be stamped with the Money Order Stamp and be sorted for distribution to Postmen. The numbers of all acknowledgments to be given to each Postman will be detailed separately in a special memorandum book (Form ⁸R.M.O.) and the Postman's signature obtained against the entry. The acknowledgments will then be handed over to the Postman. The envelopes will be retained for 12 months, sorted in daily and monthly bundles, and will be destroyed after the expiration of that period.

40. The Postmen will enter the acknowledgments in detail in their books and will obtain the remitter's signature or mark when delivering each acknowledgment.

41. Acknowledgments which cannot be delivered in consequence of the remitter not being found will be returned by the Postman to the Money Order Clerk, Sub-Postmaster or Branch Postmaster (as the case may be), who will sign for them in the Postman's Book.

42. Undelivered acknowledgments will be kept in the Office of Issue (if a Head Office) for a period of 12 months, and, if still unclaimed, will be destroyed.

43. In Sub-offices and Branch Offices undelivered acknowledgments will be retained for a period of three months, and, if still unclaimed, will be forwarded to the Head Office under a Postal Service Registered cover. Such acknowledgments will be kept in the Head Office for a further period of nine months, and, if then still on hand, will be destroyed.

44. Postmasters, Sub-Postmasters, and Branch Postmasters of the Offices of issue will be responsible that acknowledgments are delivered to remitters of Revenue Money Orders without any unnecessary delay and *free of charge*. Enquiries as to the punctual and free delivery of acknowledgments should be made from time to time from zemindars who may call at the Post Office to have Revenue Money Orders issued.

রেন্টমিউনি নগর কর্তার নথিতে নিয়ম।

51. Revenue Money orders may be used for the remittance of Land Revenue, Road, and Public Works Cesses, and Zemindari Dukt Cess and for no other purpose.

২। এমিউনি নগর কর্তার নথিতে নিয়ম।

৩। যদি কোনও নথি দিতে হয় তবে ঠিক বা ভুল বা অন্য কোনও ভুল হইলে তাহা নথি দিতে হইবে।

৪। এক নথি নগর কর্তার নথিতে নিয়ম।

৫। যে নথি নগর কর্তার নথিতে নিয়ম।

6. If the remitter is in arrears as regards the payment of his cesses he should remit the amount and expenses due from him and show them separately if possible from the actual cess. If his distribution of cess, interest and expenses is wrong it will be corrected in the Cess Office.

৭। যদি কর্তার নথিতে নিয়ম।

১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২
১২	১২	১২	১২

REVENUE MONEY ORDER.

Pay to the Payee named by the Remitter the sum specified on the reverse.

Signature of Paying Outlander.



No.

Received payment of the sum specified on the reverse.

Date

1888

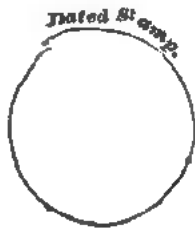
Signature of Payee (in ink.)

3
Form R.M.O.

Slip receipt for Revenue Money Orders sent from _____ Post Office to
_____ Collectorate on _____

No. of Money Orders _____

Total amount (in words and figures) _____



Sig. of the M. O. Clerk. _____

Received _____ Revenue Money Orders for Rs. _____ with list

DATE _____

Signature of Treasury Officer. _____

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the crops in the different districts of Bengal, as reported to Government during the week ending the 17th March 1888.

No.	District and date of return	Rainfall at Sadler Station in inches.	Character of the weather and state and prospects of the crops
BENGAL.			
<i>Western Districts.</i>			
BRADWAN DIV.	1 Burdwan Mar. 17, '88	Nil	Weather—seasonable. Prospects of crops good. There has been a general fall in the price of rice. Common rice is now at about 21 seers per rupee.
	Culina	1.13	
	Cutwa	0.75	
	Ranegunge	0.11	
	2 Bankura „ 17, '88	Nil	Weather—seasonable; occasionally cloudy. Wheat, mustard and <i>matar</i> are being gathered. Pressing of sugarcane still continues. Cotton, <i>boro dham</i> and indigo are thriving. Prices stationary.
	3 Boerhoom „ 17, '88	1.15	Weather—cool. <i>Rabbi</i> crop 10 annas.
PRESIDENCY DIV.	4 Midnapur „ 17, '88	.....	Slight rain in some parts of the district. <i>Rabbi</i> fair and <i>boro</i> likely to be a good crop.
	5 Hooghly „ 17, '88	Nil	Weather—normal. Prospects of crops favourable so far.
	Satampur	0.55	
	Jelmaabad	0.37	
	Howrah „ 19, '88	0.57	Weather—seasonable. Sugarcane and <i>rabbi</i> crops are being cut. <i>Boro</i> crop is promising.
	Oalooberia	0.55	
<i>Central Districts.</i>			
PRESIDENCY DIV.	6 24-Pergha Mar. 20, '88	1.70	Weather—hot; storms with hail and rain; winds variable. The crops that are on the ground are doing well. Ploughing is in progress.
	7 Nadia „ 17, '88	0.61	Weather—fair. Harvesting of cold-weather crops nearly completed. Prospects of indigo in Nadia good.
	Kooshla	3.73	
	Meherpur	2.78	
	Choudhanga	1.84	
	8 Khoolna „ 17, '88	2.05	Several thunder showers successively have cooled the air and moistened the ground. Prospects of <i>boro</i> rice and cold-weather crops good. Mango crop has suffered from wind and rain.
	9 Jessore „ 17, '88	1.0	Weather—rainy and stormy for a part of the week. There was a hail-storm in the Magura and Narail subdivisions. In the Mohamedpore station the storm has done slight damage to houses and trees. The rainfall of the week was considerable. It will be of great avail to the sowing of paddy, indigo and <i>oil</i> . The prospects of <i>boro</i> have also been bettered by it.
	10 Moorshedabad „ 17, '88	1.17	Weather—getting warmer. Harvesting of <i>rabbi</i> crops has commenced.
	Kandi	0.25	
	Jangipur	0.1	
RAJSHAHY DIV.	11 Dinagepur Mar. 17, '88	0.66	Weather—cloudy and cool in the early part of the week; latterly seasonable. Rain has done considerable good to the cultivation of <i>bhadai</i> . Prospects of <i>rabbi</i> and other crops continue good. Price of rice stationary.
	Thakurgaon	0.14	
	12 Rajshahye „ 17, '88	0.96	Weather—seasonable. Rain has done considerable good to standing crops and has facilitated preparation of lands for early sowings.
	Natore	1.40	
	13 Rangpur „ 17, '88	3.08	Weather—cool with storms and showers. Rain is very favourable for the sowings of <i>aus</i> and jute which are now in progress.
	Kinigran	3.02	
	14 Bogra „ 17, '88	Nil	Mornings misty. Days cloudy and windy. Ploughing for <i>aus</i> and jute going on. Prospects continue favourable.
	Sherpur	0.51	
	Nowkhila	0.33	
	15 Pabna „ 17, '88	2.06	Rain on three days. Storm and 1.65 inches of rain at Sadler on 18th. Weather seasonable. Prospects of crops good.
RAJSHAHY DIV.	16 Darjeeling „ 17, '88	0.91	Weather—stormy until the last two days; now fine, but not yet settled. Land is being ploughed for early rice in the Terai. Prospects of crops everywhere favourable. Price of Indian-corn has increased considerably in the hills, owing to large demands made by the Commissariat Department for the Sikkim Field Force.
	Siliguri	2.85	
	17 Julpigores „ 17, '88	3.35	Heavy showers on the 11th and 13th. Weather cloudy. Ploughing of rice lands in progress. Prospects continue good.
<i>Eastern Districts.</i>			
DAKKA DIVISION.	18 Dacca Mar. 17, '88	5.32	Weather—cloudy and stormy throughout the week. Pulses and mustard are being gathered. Ploughing of land for jute and early rice going on, but temporarily stopped in places by excessive rain. Some damage done to the standing crops; but on the whole prospects good.
	Masickgunga	2.06	
	Munshigunga	4.76	
	Narsingunga	6.09	
	19 Furreddpur „ 17, '88	5.80	Stormy weather with heavy rain on the 11th, 12th, 13th and 14th. Temperature cooler. The rain has facilitated ploughing for jute and rice, but the cold weather crops now being harvested have suffered.
	Goulundo	3.92	
	Madaripar	1.56	
	20 Backergunge „ 16, '88	1.16	Weather—seasonable. Prospects of crops good.
	21 Myrnsingh „ 16, '88	1.99	Weather—cool. Rain all over the district. Prospects of crops good. Ploughing has commenced. The recent rain has done much good.
	Jamulpur	0.37	
CHITTAGONG DIV.	Kishorigunga	1.53	
	Atia	0.55	
	Netrokona	4.08	
	22 Chittagong Mar. 20, '88	0.60	Weather—seasonable. Winter crops nearly harvested. Prices steady.
	23 Noakholly „ 16, '88	2.56	Weather—cloudy and rainy. Some of the <i>rabbi</i> crops are being harvested; outturn good.
	Fenny	3.71	
	24 Tipperah „ 15, '88	2.67	Weather—rather wet. Rain has enabled preparation of lands. Standing crops give promise of good outturn.
	Chandpur	4.50	
	25 Chittagong Hills „ 13, '88	1.66	Weather—variable; alternating between rain, cloud and storm. Rain has retarded jute cutting to some extent. Tobacco and other crops on the ground doing well.
	Tipperah	3.80	Weather—stormy. Prospects of <i>boro</i> paddy and chillies fair.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEHAR.			
PATNA DIV.	26 Patna Mar. 17, '88	Nil	Weather—seasonable. Harvesting of <i>rubbi</i> crops proceeding. Gathering of opium going on. Prices of food-grains almost stationary.
	27 Gya „ 17, '88	0.08	Weather—seasonable. <i>Rubbi</i> being harvested. Opium extraction nearly finished in some places. Sugarcane being planted.
	28 Shahabad „ 17, '88	Nil	Weather—getting hot gradually; west wind prevails. Harvesting of <i>rubbi</i> crops is almost over. Opium collection is in progress with excellent out-turn.
	29 Darbhanga „ 17, '88	1.05	Weather—getting warm. Harvesting of <i>rubbi</i> in progress. Rain has done good to <i>mung</i> and paddy sowings. It has done some injury to mango blossoms and to indigo lately sown. Collection of opium nearly over. Price of common rice averages 21 seers per rupee.
	30 Mozufferpur „ 17, '88	0.23	Weather—overcast and cloudy in the beginning of the week; a storm with slight rain on 12th, since which it has been clear and cool. Harvesting of <i>rubbi</i> crops progressing. Gathering of opium almost over.
	Hajipur „ „	0.3	
	Sitamarhi „ „	0.40	
	31 Saran „ 17, '88	0.28	Weather—seasonable. <i>Rubbi</i> being harvested; outturn favourable. Collection of opium in full progress; weightment will shortly commence. Indigo sowings going on.
	32 Champaran „ 17, '88	Nil	Weather—warm; mornings cool. Harvesting of <i>rubbi</i> commenced. Extraction of opium in full operation. Indigo sowings begun. Prospects of all standing crops good.
	33 Monghyr Mar. 17, '88	Nil	Weather—seasonable; westerly wind prevailing. <i>Rubbi</i> harvest going on. Collection of opium nearly finished. Mango trees are abundantly in blossom.
MAGHERPORE DIV.	34 Bhagalpur „ 17, '88	Nil	Too much east wind to be seasonable. Rain in the north will help preparation of lands, but that and the east wind have damaged mango blossoms. <i>Rubbi</i> harvest in progress; outturn poor.
	Maheshpur „ „	1.21	
	Sapool „ „	0.83	
	35 Patna „ 17, '88	0.65	Weather—clear and cooler. Tobacco harvested. Wheat doing well.
	Kishengunge „ „	0.65	
	Arrah „ „	1.50	
	36 Muzaffarpur „ 17, '88	0.01	Weather—cloudy and foggy in the beginning of the week; but latterly warm with strong west wind. Reaping of <i>rubbi</i> crops has begun with good outturn, except in thana Katua and outpost Tulsimatta, where some damage was done for want of rain. Slight showers of the week have done no material good to standing crops, but have caused much damage to mango blossoms. Transplantation of <i>boro</i> paddy still going on. Sowing of <i>bhadai</i> paddy has begun. Common rice selling at an average of 23 seers per rupee.
	Chanchal „ „	0.56	
	Shibganj „ „	0.3	
	Gazal „ „	0.30	
ORISSA.	37 Sonthal Perga. „ 17, '88	Nil	Weather—stormy with rain; west winds setting in. <i>Mohua</i> and mango crops look good, but slightly damaged by storms.
	Deoghur „ „	0.54	
	Pakour „ „	0.16	
ORISSA DIV.	38 Cuttack Mar. 16, '88	Nil	Weather—fair. Threshing of <i>sarad</i> rice going on in some places and completed in others. <i>Dalua</i> rice is flowering and partly ripening. Wheat is being gathered. Price of rice stationary. Cattle-disease has appeared in some places in the interior.
	39 Puri „ 15, '88	Nil	Weather—seasonable. Land is being ploughed. <i>Dalua</i> crop is being harvested. <i>Rubbi</i> is being gathered. Mango crop suffering for want of rain. Common rice 23 seers 15 chittacks per rupee in the Sudder sub-division and 24 seers in the Khorda sub-division.
	40 Balasore „ 16, '88	Nil	Weather—getting warmer with strong south wind. Few crops on the ground; such as there are promise well. <i>Dalua</i> rice in ear.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIV.	41 Huzaribagh Mar. 16, '88	Nil	Weather—seasonable; rather cooler than last week. Sugarcane is being planted. Prospects of mango and <i>mohua</i> good so far. Poppy is still being collected; yield good. Condition of agricultural stock good.
	42 Bhandrug „ 17, '88	Nil	Weather—getting hot. <i>Rubbi</i> being harvested. Prices steady. Cattle-disease reported.
	43 Singhbhum „ 16, '88	Nil	Slight rain during the week; weather getting very warm. <i>Rubbi</i> being harvested. Cotton doing well. Sugarcane being planted. Prices slightly higher than at this time last year.
	44 Manbhum „ 17, '88	Nil	Weather—getting rapidly hotter with clouds and high wind. Prospects of spring crops good. <i>Mohua</i> is doing well, though it has been damaged slightly by wind in Govindpur.
	Govindpur „ „	0.35	

Published for general information.

CALCUTTA, REVENUE DEPT.;
The 20th March 1888.P. NOLAN,
Secy. to the Govt. of Bengal.

IMPORTS INTO CALCUTTA.

* One mound of paddy is equivalent to 25 acres of rice. | † Exclusive of bags obtained by bent manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of December 1887 was as follows:—

[illegible]

IMPORTS INTO CALCUTTA.

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Trade exported Inland from Calcutta during the month of December 1881.

EXPORTS FROM CALCUTTA.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of December 1887.

STATISTICAL DEPARTMENT,
The 16th March 1886.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL
DURING THE FORTNIGHT ENDING THE
15TH MARCH 1888.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.		DISTRICTS.	QUANTITIES PER RUPEE IN																									
			WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU (Sorghum Vulgare.)													
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.								
BENGAL.																												
Western Districts.																												
1	Burdwan	13 4	13 4	12 0	No sale.			19 8	19 2	19 8	21 6	21 0	26 4															
2	Bankura	14 8	13 12	16 0	19 0	19 0	21 0	19 8	19 8	19 4	20 7	20 6	24 12															
3	Beerbhoom	13 8	13 8	16 8				15 12	15 12	18 0	21 0	21 0	24 0															
4	Midnapore	15 0	15 0	18 0				23 0	22 0	19 0	25 0	24 0	26 0															
5	Hosghly	14 0	14 0	11 8				10 0	10 0	10 0	17 0	17 0	18 6															
6	Haurah	Not available.						14 0	14 0	13 5	20 0	20 0	16 8															
Central Districts.																												
7	Calcutta	13 3	12 7	14 0	20 13	22 10	21 0	10 15	10 0	9 6	17 8	16 10	19 4	16 0	16 3	21												
8	24-Pergunnahs	16 0	16 0	13 5	22 8	22 8	21 4	8 0	8 0	8 0	20 0	20 0	18 13															
9	Nuddea	16 0	16 0	15 0	32 0	32 0	32 0	11 8	14 8	16 0	19 0	18 5	19 0															
10	Khoulna							2 8	21 0	18 0	23 0	23 0	21 0															
11	Jessore	13 4	13 4	13 8				16 0	17 0	19 0	24 10	23 0	21 8															
12	Moorshedabad	15 0	15 0	16 0				14 0	15	16 0	23 0	23 0	23 0															
13	Dinagpore	15 0	11 0	11 12	30 0	21 0	22 0	20 0	20 0	21 0	24 12	23 0	26 0															
14	Raishabye	16 8	16 8	16 8	45 0	45 0	45 0	16 8	16 8	17 4	31 12	22 8	22 8															
15	Rungpore	11 0	11 0	12 12				13 4	13 4	18 0	24 0	20 0	22 8															
16	Bogra	15 0	15	17 4				15 0	15 0	16 8	20 4	20 4	20 4															
17	Palna	10 0	17 0	18 0				8 0	8 0	11 0	22 8	24 12	24 0															
18	Darjeling	10 0	10 0	8 0	11 0	11 0	10 0	5	5 0	6 0	14 0	14 0	14 0															
19	Julpigoree	12 0	13 0	10 0	20 0	20 0	20 0	14 0	13 0	14 0	20 0	20 0	25 0															
Eastern Districts.																												
20	Dacca	14 8	12 12	14 0	40 0	25 12	28 0	10 12	10 0	17 0	25 0	21 8	10 0															
21	Murshedpore	17 0	18 0	16 0	40 8	40 0	25 0	15 0	15	16 0	24 0	24 0	22 0															
22	Rackerghunee*																											
23	Mymensah	13 12	14 0	10 8				12 0	12 8	13 4	18 0	18 8	16 0															

* Return not received.

A In sub-divisions retail prices of salt per rupee were:—Calcutta 10½ seers, Ranagunge 10 seers.

B At Bishnupore retail price of salt 10 seers per rupee.

C At Ranagunge retail price of salt 11½ seers per rupee.

D In sub-divisions retail prices of salt per rupee were:—Ghatal 16½ seers, Tamlook 8 seers and Contai 9 seers.

E In sub-divisions retail prices of salt per rupee were:—Serampore 10 seers, and Jehanabad 9 seers.

F In sub-divisions retail prices of salt per rupee were:—Baranet and Buxarbat 9 seers, Diamond Harbour (Kalyan) 8 seers.

G In sub-divisions retail prices of salt per rupee were:—Koochab and Ranaghat 10 seers, Meherpore and Chaudhury 14½ seers.

H In sub-divisions retail prices of salt per rupee were:—Sathira 9 seers 2½ chittaks and Dacca 8 seers.

SICKERS OF 80 TOLANS.

BAJRA OR COMBU. (<i>Pennisetum typho-</i> <i>ideum.</i>)		MARVA OR KAGI. (<i>Eleusine Corocana.</i>)	
Present return.	Next preceding return.	Present return.	Next preceding return.
	Corresponding return of last year.		Corresponding return of last year.

[illegible][illegible]

0-1	0-2	0-3	0-4	0-5	0-6
0-7	0-8	0-9	0-10	0-11	0-12
0-13	0-14	0-15	0-16	0-17	0-18
0-19	0-20	0-21	0-22	0-23	0-24
0-25	0-26	0-27	0-28	0-29	0-30
0-31	0-32	0-33	0-34	0-35	0-36
0-37	0-38	0-39	0-40	0-41	0-42
0-43	0-44	0-45	0-46	0-47	0-48
0-49	0-50	0-51	0-52	0-53	0-54
0-55	0-56	0-57	0-58	0-59	0-60
0-61	0-62	0-63	0-64	0-65	0-66
0-67	0-68	0-69	0-70	0-71	0-72
0-73	0-74	0-75	0-76	0-77	0-78
0-79	0-80	0-81	0-82	0-83	0-84
0-85	0-86	0-87	0-88	0-89	0-90
0-91	0-92	0-93	0-94	0-95	0-96
0-97	0-98	0-99	0-100	0-101	0-102
0-103	0-104	0-105	0-106	0-107	0-108
0-109	0-110	0-111	0-112	0-113	0-114
0-115	0-116	0-117	0-118	0-119	0-120
0-121	0-122	0-123	0-124	0-125	0-126
0-127	0-128	0-129	0-130	0-131	0-132
0-133	0-134	0-135	0-136	0-137	0-138
0-139	0-140	0-141	0-142	0-143	0-144
0-145	0-146	0-147	0-148	0-149	0-150
0-151	0-152	0-153	0-154	0-155	0-156
0-157	0-158	0-159	0-160	0-161	0-162
0-163	0-164	0-165	0-166	0-167	0-168
0-169	0-170	0-171	0-172	0-173	0-174
0-175	0-176	0-177	0-178	0-179	0-180
0-181	0-182	0-183	0-184	0-185	0-186
0-187	0-188	0-189	0-190	0-191	0-192
0-193	0-194	0-195	0-196	0-197	0-198
0-199	0-200	0-201	0-202	0-203	0-204
0-205	0-206	0-207	0-208	0-209	0-210
0-211	0-212	0-213	0-214	0-215	0-216
0-217	0-218	0-219	0-220	0-221	0-222
0-223	0-224	0-225	0-226	0-227	0-228
0-229	0-230	0-231	0-232	0-233	0-234
0-235	0-236	0-237	0-238	0-239	0-240
0-241	0-242	0-243	0-244	0-245	0-246
0-247	0-248	0-249	0-250	0-251	0-252
0-253	0-254	0-255	0-256	0-257	0-258
0-259	0-260	0-261	0-262	0-263	0-264
0-265	0-266	0-267	0-268	0-269	0-270
0-271	0-272	0-273	0-274	0-275	0-276
0-277	0-278	0-279	0-280	0-281	0-282
0-283	0-284	0-285	0-286	0-287	0-288
0-289	0-290	0-291	0-292	0-293	0-294
0-295	0-296	0-297	0-298	0-299	0-300
0-301	0-302	0-303	0-304	0-305	0-306
0-307	0-308	0-309	0-310	0-311	0-312
0-313	0-314	0-315	0-316	0-317	0-318
0-319	0-320	0-321	0-322	0-323	0-324
0-325	0-326	0-327	0-328	0-329	0-330
0-331	0-332	0-333	0-334	0-335	0-336
0-337	0-338	0-339	0-340	0-341	0-342
0-343	0-344	0-345	0-346	0-347	0-348
0-349	0-350	0-351	0-352	0-353	0-354
0-355	0-356	0-357	0-358	0-359	0-360
0-361	0-362	0-363	0-364	0-365	0-366
0-367	0-368	0-369	0-370	0-371	0-372
0-373	0-374	0-375	0-376	0-377	0-378
0-379	0-380	0-381	0-382	0-383	0-384
0-385	0-386	0-387	0-388	0-389	0-390
0-391	0-392	0-393	0-394	0-395	0-396
0-397	0-398	0-399	0-400	0-401	0-402
0-403	0-404	0-405	0-406	0-407	0-408
0-409	0-410	0-411	0-412	0-413	0-414
0-415	0-416	0-417	0-418	0-419	0-420
0-421	0-422	0-423	0-424	0-425	0-426
0-427	0-428	0-429	0-430	0-431	0-432
0-433	0-434	0-435	0-436	0-437	0-438
0-439	0-440	0-441	0-442	0-443	0-444
0-445	0-446	0-447	0-448	0-449	0-450
0-451	0-452	0-453	0-454	0-455	0-456
0-457	0-458	0-459	0-460	0-461	0-462
0-463	0-464	0-465	0-466	0-467	0-468
0-469	0-470	0-471	0-472	0-473	0-474
0-475	0-476	0-477	0-478	0-479	0-480
0-481	0-482	0-483	0-484	0-485	0-486
0-487	0-488	0-489	0-490	0-491	0-492
0-493	0-494	0-495	0-496	0-497	0-498
0-499	0-500	0-501	0-502	0-503	0-504
0-505	0-506	0-507	0-508	0-509	0-510
0-511	0-512	0-513	0-514	0-515	0-516
0-517	0-518	0-519	0-520	0-521	0-522
0-523	0-524	0-525	0-526	0-527	0-528
0-529	0-530	0-531	0-532	0-533	0-534
0-535	0-536	0-537	0-538	0-539	0-540
0-541	0-542	0-543	0-544	0-545	0-546
0-547	0-548	0-549	0-550	0-551	0-552
0-553	0-554	0-555	0-556	0-557	0-558
0-559	0-560	0-561	0-562	0-563	0-564
0-565	0-566	0-567	0-568	0-569	0-570
0-571	0-572	0-573	0-574	0-575	0-576
0-577	0-578	0-579	0-580	0-581	0-582
0-583	0-584	0-585	0-586	0-587	0-588
0-589	0-590	0-591	0-592	0-593	0-594
0-595	0-596	0-597	0-598	0-599	0-600
0-601	0-602	0-603	0-604	0-605	0-606
0-607	0-608	0-609	0-610	0-611	0-612
0-613	0-614	0-615	0-616	0-617	0-618
0-619	0-620	0-621	0-622	0-623	0-624
0-625	0-626	0-627	0-628	0-629	0-630
0-631	0-632	0-633	0-634	0-635	0-636
0-637	0-638	0-639	0-640	0-641	0-642
0-643	0-644	0-645	0-646	0-647	0-648
0-649	0-650	0-651	0-652	0-653	0-654
0-655	0-656	0-657	0-658	0-659	0-660
0-661	0-662	0-663	0-664	0-665	0-666
0-667	0-668	0-669	0-670	0-671	0-672
0-673	0-674	0-675	0-676	0-677	0-678
0-679	0-680	0-681	0-682	0-683	0-684
0-685	0-686	0-687	0-688	0-689	0-690
0-691	0-692	0-693	0-694	0-695	0-696
0-697	0-698	0-699	0-700	0-701	0-702
0-703	0-704	0-705	0-706	0-707	0-708
0-709	0-710	0-711	0-712	0-713	0-714
0-715	0-716	0-717	0-718	0-719	0-720
0-721	0-722	0-723	0-724	0-725	0-726
0-727	0-728	0-729	0-730	0-731	0-732
0-733	0-734	0-735	0-736	0-737	0-738
0-739	0-740	0-741	0-742	0-743	0-744
0-745	0-746	0-747	0-748	0-749	0-750
0-751	0-752	0-753	0-754	0-755	0-756
0-757	0-758	0-759	0-760	0-761	0-762
0-763	0-764	0-765	0-766	0-767	0-768
0-769	0-770	0-771	0-772	0-773	0-774
0-775	0-776	0-777	0-778	0-779	0-780
0-781	0-782	0-783	0-784	0-785	0-786
0-787	0-788	0-789	0-790	0-791	0-792
0-793	0-794	0-795	0-796	0-797	0-798
0-799	0-800	0-801	0-802	0-803	0-804
0-805	0-806	0-807	0-808	0-809	0-810
0-811	0-812	0-813	0-814	0-815	0-816
0-817	0-818	0-819	0-820	0-821	0-822
0-823	0-824	0-825	0-826	0-827	0-828
0-829	0-830	0-831	0-832	0-833	0-834
0-835	0-836	0-837	0-838	0-839	0-840
0-841	0-842	0-843	0-844	0-845	0-846
0-847	0-848	0-849	0-850	0-851	0-852
0-853	0-854	0-855	0-856	0-857	0-858
0-859	0-860	0-861	0-862	0-863	0-864
0-865	0-866	0-867	0-868	0-869	0-870
0-871	0-872	0-873	0-874	0-875	0-876
0-877	0-878	0-879	0-880	0-881	0-882
0-883	0-884	0-885	0-886	0-887	0-888
0-889	0-890	0-891	0-892	0-893	0-894
0-895	0-896	0-897	0-898	0-899	0-900
0-901	0-902	0-903	0-904	0-905	0-906
0-907	0-908	0-909	0-910	0-911	0-912
0-913	0-914	0-915	0-916	0-917	0-918
0-919	0-920	0-921	0-922	0-923	0-924
0-925	0-926	0-927	0-928	0-929	0-930
0-931	0-932	0-933	0-934	0-935	0-936
0-937	0-938	0-939	0-940	0-941	0-942
0-943	0-944	0-945	0-946	0-947	0-948
0-949	0-950	0-951	0-952	0-953	0-954
0-955	0-956	0-957	0-958	0-959	0-960
0-961	0-962	0-963	0-964	0-965	0-966
0-967	0-968	0-969	0-970	0-971	0-972
0-973	0-974	0-975	0-976	0-977	0-978
0-979	0-980	0-981	0-982	0-983	0-984
0-985	0-986	0-987	0-988	0-989	0-990
0-991	0-992	0-993	0-994	0-995	0-996
0-997	0-998	0-999			

KANGHI OR KARUN. ITALIAN MILLET. (<i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAY, OR SUNAGA. (<i>Cicer arietinum</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

N. Ch.	N. Ch.	N. Ch.	S. Ch.	S. Ch.	S. Ch.	N. Ch.
...	22 4	18 15	21 0	
...	16 0	16 0	19 4	
...	22 8	21 0	20 0	
...	17 0	17 0	19 0	
...	19 0	19 0	20 0	
...	20 0	20 0	20 0	

12 13	13 4	19 0	18 8	17 12	19 4	
13 5	13 5	...	21 4	20 0	21 8	
...	...	...	22 14	22 14	26 10	
...	...	...	16 0	16 0	16 0	
...	...	...	20 0	20 0	20 0	
...	...	...	23 0	23 0	26 0	
...	...	...	16 0	14 4	20 0	
...	...	...	21 0	19 8	36 4	
...	...	...	14 8	16 0	18 0	
...	...	...	15 0	12 0	17 4	
...	...	...	18 12	21 0	22 8	
...	...	...	11 0	11 0	11 0	
...	...	...	13 0	15 0	18 0	

...	...	...	16 0	16 0	14 8	
...	...	...	15 0	15 0	15 0	
...	
...	...	...	15 8	14 0	16 0	

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLAM (Sorghum &ulgaro).		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

Eastern Districts—continued.

		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong	10 0	11 0	16 0	...	...	...	13 0	14 0	13 0	20 4	20 0	17 8	...	...	...
23	Noakholly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Tipperah	13 8	13 8	11 0	...	...	...	17 8	17 8	15 15	25 0	25 0	20 3	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	Hill Tipperah	8 0	8 0	12 0	...	...	...	15 0	15 0	12 0	28 0	28 0	18 0	...	...	...

BEHAR.

27	Patna	10 0	15 8	16 0	20 0	20 0	32 0	11 8	11 8	11 8	20 8	30 0	24 0	22 0	20 0	26 0
28	Gya	15 6	14 0	17 0	24 0	19 0	28 0	10 0	10 0	11 0	18 0	18 0	19 8	...	...	...
29	Shahabad	14 8	13 0	16 0	23 8	23 0	25 0	10 8	9 8	10 0	18 8	17 14	18 0	20 0	23 8	...
30	Darbhanga	13 8	14 8	18 0	35 0	30 4	30 0	14 8	13 0	13 0	20 12	20 0	21 0	...	...	...
31	Muzafferpore	13 0	13 0	14 0	30 0	24 0	30 0	12 0	12 0	12 8	20 0	20 0	23 0	...	...	...
32	Saran	16 0	13 8	14 0	20 12	22 0	32 0	8 8	8 8	8 0	20 10	20 0	23 0	...	...	...
33	Champaran	11 0	12 0	18 0	30 0	30 0	40 0	12 0	12 0	7 8	19 0	21 0	18 0	...	...	...
34	Monghyr	19 0	16 13	16 12	21 2	25 3	31 8	13 14	13 14	14 2	17 13	18 4	18 14	...	...	...
35	Shahupore	15 2	15 2	16 6	30 0	25 4	35 6	16 6	16 0	20 3	20 3	18 15	21 7	...	...	...
36	Farrukh	16 0	14 0	11 0	26 8	28 0	...	21 0	20 0	30 0	23 0	22 0	23 0	...	...	...
37	Maldah	18 8	17 0	14 0	...	...	...	13 0	13 0	18 0	23 0	23 0	28 0	...	...	...
38	Bonthal Pergah.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

ORISSA.

39	Cuttack	14 7	16 12	13 2	...	...	...	10 8	10 8	10 8	21 0	21 0	18 8	...	...	...
40	Pooree	13 0	14 7	10 8	...	...	...	17 1	14 7	15 12	23 10	23 10	20 4	...	...	...
41	Balasore	16 0	15 0	15 0	18 0	13 0	13 0	14 0	16 0	18 0	25 0	26 0	24 0	...	...	...

CHOTA NAGPORE.

South-West Frontier Agency.

42	Hazaribagh	16 0 (ordinary)	16 0	20 0	22 0	24 0	8 0	8 0	10 0	15 8	16 0	20 0	...	...	...	...
43	Lohardugga	16 0	14 0	22 0	20 0	...	24 0	16 0	16 0	19 0	18 0	19 8	24 0	...	...	...
44	Singbhoom	19 0	12 0	24 0	16 0	24 0	24 0	14 0	16 0	28 0	23 0	23 0	32 0	...	...	...
45	Munbhoom	16 0	11 0	16 0	22 0	22 0	44 0	14 0	14 0	18 0	23 0	24 0	30 0	...	...	...

Q At Cox's Bazar retail price of salt 11 seers per rupee.

R At Nowadah retail price of salt 8 seers per rupee.

S In Buxar, Sonosum and Buxhuah sub-divisions retail price of salt 10 seers per rupee.

T In sub-divisions retail prices of salt per rupee were:—Malhubani 11 seers, and Tajpore 9 seers.

U In sub-divisions retail prices of salt per rupee were:—Hajipore 9 seers and Bostamarhee 9 seers.

V At Bostish retail price of salt 9 seers per rupee.

Published for general information.

CALCUTTA,

The 21st March 1888.

SEERS OF 80 TOLAHS

BAJRA OR CUMBU. (<i>Pennisetum typho-</i> <i>ideum.</i>)			MARJA OR RAGI. (<i>Elaeagne Corocana.</i>)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...
...
...
...
...

...	...	26	0	...	32	0	26	0	
...	
...	
...	...	...	...	33	0	33	0	30	0
...	...	...	...	30	0	30	0	...	...
...	...	...	...	30	0	31	8	27	0
...	...	...	...	30	0	28	0	...	...
...
...
...	...	...	...	32	0	32	0	...	...
...
...
...
...
...
...
...

...	...	...	27	0	35	8	31	0
...	...	...	32	0	35	0	40	0
...
...

KANGNI OR KAKUN. ITALIAN MIDLET. (<i>Scleria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAT OR BUNAGA. (<i>Cicer aristatum</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

S. Cb.	S. Ch.	S. Cb.	S. Ch.	S. Cb.	S. Ch.
...	8 0	10 8	11 0
...
...	11 0	11 0	13 12
...
...	12 0	12 0	12 0

20 0	30 0	20 0	26 0	21 0	28 0
19 0	19 0	16 0	22 0	17 0	23 8
...	...	...	21 8	16 8	24 0
18 8	18 0	...	20 12	14 0	24 8
...	...	...	22 0	18 0	26 0
18 0	19 0	15 0	20 0	19 8	21 0
...	...	...	14 0	17 0	26 0
21 0	21 0	21 0	27 14	22 4	26 12
...	...	...	20 8	20 8	24 0
16 0	16 0	...	26 8	24 0	20 0
...	...	...	20 0	20 0	20 0
...

...	...	...	21 0	(Kalai) 21 0	17 1
...	...	...	17 1	(Kalai.) 15 12	14 7
...	...	...	18 0	15 0	16 0

...	...	...	17 0	17 0	20 0
...	...	...	18 0	16 0	20 0
...	...	...	14 0	14 0	16 0
...	...	...	16 0	16 0	18 0

Station Bazaars of the Districts of Bengal on the 15th March 1888—(concluded.)

									WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR TUR. CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	

Eastern Districts—concluded.

S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	R. A. P.	R. A. P.	R. A. P.	
...	8 0	8 0	10 0	1 0	110 0	76 0	7 0	9 0	12 0	4 10 0	4 8 0	3 0 0	...	Chittagong.
...	Noakhali.
...	8 0	8 0	10 4	...	...	...	8 0	10 8	12 0	4 8 0	3 12 0	...	...	Tippurah.
...	Chittagong Hill Tracts.
...	12 0	12 0	16 0	...	...	...	9 0	9 0	11 0	4 4 0	4 4 0	3 4 0	...	Hill Tippurah.

BEHAR

29 0	26 0	30 0	17 0	12 0	17 0	120 0	120 0	120 0	10 0	10 0	11 8	3 12 0	3 12 0	3 1 6	...	Patna.
...	...	...	18 8	0 0	17 0	180 0	140 0	140 0	9 8	9 8	11 0	4 4 0	4 0 0	3 5 0	...	Gya.
22 8	22 8	...	15 0	12 8	13 0	120 0	130 0	180 0	10 0	10 0	12 0	...	...	3 5 0	...	Maharaj.
25 12	25 8	28 0	16 12	15 0	22 0	160 0	160 0	76 0	9 8	8 8	13 0	3 13 0	4 4 0	3 0 0	...	Darbhanga.
27 0	26 8	26 0	22 0	14 0	19 0	160 0	160 0	140 0	0 8	10 0	12 0	4 2 0	...	3 4 0	...	Muzaffarpore.
25 14	23 8	30 0	21 0	16 4	22 0	160 0	160 0	160 0	9 8	0 8	11 8	4 2 0	4 4 0	3 2 8	...	Saran.
30 0	28 0	30 0	16 0	14 0	21 8	160 0	160 0	160 0	9 0	8 0	12 0	4 4 0	4 8 0	3 2 0	...	Champan.
26 4	27 14	29 7	18 14	16 4	19 0	126 0	126 0	126 0	10 8	10 8	12 9	3 8 6	3 6 0	3 0 0	...	Monghyr.
26 8	25 4	31 0	17 10	22 11	21 7	164 0	151 8	170 7	10 1	9 6	12 10	3 13 0	4 0 0	3 3 0	...	Biadupore.
...	...	...	6 0	16 0	...	120 0	120 0	198 0	8 8	8 0	11 0	4 13 3	...	...	...	Parneah.
...	...	...	...	...	...	120 0	120 0	110 0	9 0	9 0	12 0	4 4 0	4 0 0	3 4 0	...	Mahlah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Senthal Pergu.

ORISSA

...	...	...	18 6	19 11	...	80 0	80 0	80 0	10 0	9 12	14 0	3 14 0	4 0 0	2 12 0	...	Cuttack.
...	...	...	17 1	17 1	17 1	70 0	70 0	70 0	8 4	10 8	14 7	3 12 0	3 8 0	3 10 0	...	Pooree.
...	...	...	0 10 8	12 0	12 0	120 0	120 0	160 0	8 8	8 8	10 0	4 7 0	4 8 0	3 10 0	...	Balasore.

CHOTA NAAGPORE
South-West Frontier Agency.

...	...	...	20 0	20 0	20 0	320 0	320 0	320 0	8 0	7 0	10 0	4 8 6	5 0 0	3 8 0	...	Hazaribagh.
...	...	...	24 0	24 0	24 0	140 0	145 0	145 0	9 0	9 1	10 0	4 3 0	4 8 0	3 12 0	...	Lohardugga.
...	...	...	19 0	20 0	24 0	24 0	240 0	240 0	8 0	8 0	8 0	...	...	4 0 0	...	Singbhoom.
...	...	...	24 0	22 0	22 0	240 0	240 0	240 0	9 2	9 2	10 10	4 4 0	3 6 0	3 6 0	...	Manbhoom.

In sub-divisions retail prices of salt per rupee were:—Bhugurra 1 seer and Jamui 9 seers.
In sub-divisions retail prices of salt per rupee were:—Kishengunga 10 seers, and Manasgunga 8½ seers.
In sub-divisions retail prices of salt 3 seers per rupee.
In sub-divisions retail prices of salt 2 seers per rupee.
In sub-divisions retail prices of salt 1½ seers per rupee.
In sub-divisions retail prices of salt 1 seer per rupee.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt in the

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta	2 12 0	2 13 11	2 14 6	1 10 6	1 8 0	1 9 0	3 0 7	3 8 7	3 8 0	2 1 4	3 3 0	1 14 0
2	Sorajunge	2 0 0	2 2 0	2 0 0	...	...	...	3 8 0	3 6 0	3 14 0	1 14 0	1 14 0	1 11 6
3	Dacca	2 12 0	2 10 0	2 12 0	1 0 0	1 8 0	1 8 0	1 15 0	2 0 0	2 6 0	1 9 0	1 13 0	2 1 0
4	Naraingunge	...	...	...	...	...	...	2 4 0	2 0 0	2 7 0	2 0 0	1 12 0	2 1 0
5	Chittagong	3 5 0	3 8 0	2 0 0	...	...	...	2 12 0	2 12 0	3 0 0	1 15 0	1 14 0	2 5 0
6	Patna	2 6 0	2 8 0	2 7 0	1 6 0	1 5 0	1 3 8	3 0 0	3 0 0	3 0 0	1 13 0	1 12 0	1 10 0
7	Bahore	2 4 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 12 0	3 6 0	3 0 0	1 3 0	1 7 0	1 6 0
8	Poorce	...	...	...	...	...	...	...	...	...	1 8 0	1 8 0	1 6 8
9	Cuttack	2 10 0	2 5 0	3 0 0	...	...	...	3 10 0	2 10 0	3 10 0	1 11 0	1 11 0	2 2 0

CALCUTTA

The 20th March 1888.

PRICES PER MAUND											
JOWAR OR CHOLAM. (<i>Sorghum Vulgare</i> .)						BAJRA OR CUMBU. (<i>Pennisetum typhu- deum</i> .)					
Present return.	Next preceding return.		Corresponding return of last year.			Present return.	Next preceding return.		Corresponding return of last year.		
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
2 4 8	2 6 0	1 10 0	3 2 2	3 3 4	2 2 0	...	...	...	...	...	...
...
...
...
1 12 0	1 14 0	1 6 0	...	...	1 6 0	...	...	...	...	...	...
...
...
...

OF 40 SHEETS.

MARUA OR RAGI. (<i>Eleusine Corocana</i> .)			KANGNI OR KARUN. ITALIAN MILLET. (<i>Setaria italica</i> .)		
Present return	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	3 0 13	0 0 2	4 0
...
...
...
...
...	1 3 0	1 6 0	1 5 0	1 4 0	1 4 0
...
...
...

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undermentioned *Marts* of Bengal on the 15th March 1888.

GRAM, CHANA, CHHOLA, LADALAY OR SUNAHA. (<i>Oler. Aristinum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR THUR CABJAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 15 5 2 0 4	1 11 6	1 8 5 2 1 7	1 4 0	1 15 1	1 14 10	2 0 0	0 8 8 0 0 0	7 0 0 0	3 13 7	3 14 9	3 0 0	Calcutta.			
2 4 0 2 4 0	3 0 0	...	...	...	...	...	...	...	3 14 0	4 12 0	3 0 0	Serajunga.
2 8 0 2 6 0	2 10 0	...	...	...	3 0 0	2 0 0	...	0 5 3 0 0 0	5 0 4	4 0 1	8 0 3	Dacca.
2 8 0 2 4 0	2 1 0	...	...	...	3 0 0	2 8 0	...	0 10 0 0 8 0 0 0	5 0 0	4 8 0	2 15 0	Kardungmoo.
4 8 0 3 10 0	3 8 0	...	...	...	4 0 0	4 8 0	3 12 0	0 6 0 0 5 0 0 0	8 0 4	10 0 4	3 0 0	Chittagong.
1 7 8 1 13 0	1 5 6	1 5 0 1 7 0	1 4 2	1 7 0	1 13 1	1 8 0 0 5 0 0 0	6 0 5 0 3 12 0	3 12 0	3 12 0	3 1 8	Patna.				
2 14 0 2 8 0	2 8 0	...	...	...	3 0 0	3 8 0	3 2 0 0 4 0 0 0	4 0 5 0 4 7 0	1 8 0	3 10 0	Balasore.	
...	...	...	...	...	...	...	...	...	3 12 0	3 8 0	2 10 0	Pooree.
1 11 0	(khalai) 1 1 0	2 0 0	3 2 0	2 0 0	...	0 8 0 0 8 0 0 0	3 14 0	4 0 0	2 12 0	Cuttack.		

Published for general information.

P. NOLAN,
Secy. to the Govt of Bengal.

Meteorological Report of the Province of

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.															
			AIR PRESSURE.					TEMPERATURE.						HUMIDITY.		CLOUD.		
			Highest, 10 A.M., barometer reading of month.	Lowest, 10 A.M., barometer reading of month.	Mean, 10 A.M., barometer reading of month.	Mean, reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily temperature in shade.	Mean daily temperature in sun.	Mean daily temperature.	Variation from normal mean.	Mean, 10 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 10 A.M.	Variation from normal mean.	Rainfall.
CHINA.	Poores	Gopalpore	29.131	29.877	29.908	29.918	0	84.7	84.0	81.8	71.1	76.5	+2.5	80	—	1.7	+0.2	1.1
		Fabo Plant	29.181	29.911	29.918	29.920	1.001	80.5	87.0	81.6	65.8	73.7	0	64	—11	2.0	+0.2	1.4
	Outack	Outack	29.119	29.883	29.976	29.980	1.013	88.0	88.8	88.0	67.1	74.0	+0.9	64	+1	2.0	+1.0	0.7
	Balsore	Balsore	29.130	29.888	29.991	29.995	—0.003	82.4	89.0	83.4	63.2	72.8	+1.7	68	—	1.2	—	5.1
SOUTH-WEST BUREAU.	South-West Midnapore and South 24 Pargannas.	Sangoi Island	29.178	29.926	29.911	29.920	1.011	88.2	82.8	80.0	65.0	72.5	—0.6	71	—6	3.3	+1.2	2.9
	Midnapore	Midnapore	29.031	29.801	29.920	29.931	1.001	84.3	83.2	81.6	61.1	72.9	+2.8	45	—	1.2	—	1.1
	24 Pargannas, Howrah and Hooghly.	Calcutta	29.169	29.916	29.936	29.938	—0.001	80.5	80.8	80.5	60.7	70.1	—0.0	65	—14	1.9	—0.1	1.6
	Burdwan	Burdwan	29.087	29.820	29.957	29.961	—0.007	82.1	80.1	82.8	58.0	70.7	+0.2	43	—11	1.9	—0.1	1.1
SOUTH BUREAU.	Bankura	Bankura	29.821	29.614	29.720	—	—	80.3	83.3	79.7	60.9	70.3	—	50	—	0.7	—	0.9
	West Burdwan and Boerghoom.	Baranagar	29.801	29.600	29.725	1.012	1.002	80.7	80.8	83.4	58.7	71.1	+2.4	41	—	0.9	—	0.94
	Mooredahad	R. Himpore	29.111	29.850	29.901	1.001	1.011	81.7	85.6	81.4	60.1	69.0	—0.5	50	—14	1.8	—0.1	1.08
	Nudden	Kanchinagar	29.050	29.854	29.972	29.970	—	81.7	87.0	82.2	54.0	64.6	—	47	—	2.0	—	0.63
SOUTH BUREAU.	Jessore and Khoulia	Jessore	29.155	29.904	29.924	29.931	+0.014	82.5	87.9	82.1	60.7	63.0	—0.8	50	—3	2.2	+0.2	1.11
	Chittagong	Chittagong	29.025	29.867	29.930	29.930	1.001	88.0	86.7	87.5	69.1	65.3	—1.0	72	+2	2.7	+0.9	0.67
	Chittagong Hill Tracts	Dumturi	(Observations not received.)															
	Backerganj	Barisal	29.147	29.890	29.937	29.950	+0.031	89.3	89.6	79.7	58.1	69.6	+2.1	63	—	2.0	—	0.60
SOUTH BUREAU.	Naokhali	Naokhali	29.075	29.898	29.901	29.915	—0.004	88.0	84.0	79.6	57.0	68.4	+1.2	69	—	2.1	—	0.57
	Furteedpore	Furteedpore	29.117	29.904	29.911	29.925	1.007	80.3	87.0	78.2	55.8	66.5	—0.1	66	—	0.8	—	1.27
	Dacca	Dacca	29.137	29.901	29.922	29.911	—0.018	80.1	89.1	81.0	57.3	69.2	—1.3	64	—10	1.6	—0.4	1.42
	Comilla	Comilla	29.127	29.940	29.922	29.928	—0.007	80.1	88.1	80.7	56.0	68.7	+0.7	61	—	1.9	—	0.66
SOUTH BUREAU.	Mymensingh	Mymensingh	29.111	29.896	29.905	29.905	—0.018	87.1	89.8	78.3	53.9	66.1	+0.9	66	—	2.0	—	0.61
	Bogra	Bogra	29.081	29.881	29.901	29.901	—	80.3	85.0	79.8	57.1	66.5	—	55	—	2.0	—	0.61
	Fabna	Sherpur	29.125	29.892	29.921	29.920	1.008	80.0	87.0	80.0	57.2	67.1	+1.0	66	—	2.2	—	1.77
	Rajshahi	Rajshahi	29.125	29.847	29.924	29.900	+0.011	80.3	87.7	80.0	52.5	63.8	+1.2	40	—	0.1	—	0.45
SOUTH BUREAU.	Maldah	Maldah	29.126	29.810	29.905	—	—	88.1	83.5	84.5	61.5	60.0	—	61	—	1.8	—	0.18
	Dinapore	Dinapore	29.018	29.798	29.900	29.900	1.000	88.1	84.4	79.7	51.3	65.5	+1.9	61	—	0.7	—	NR
	Kumarghat	Kumarghat	29.028	29.780	29.908	29.908	—0.015	86.3	84.0	78.0	51.2	61.7	+2.2	60	—	0.5	—	0.70
	Jalpaiguri and Coorg Bazar.	Jalpaiguri	29.067	29.890	29.940	29.947	—0.014	81.0	86.0	76.0	51.0	61.0	+3.0	60	—	1.3	—	NR
SOUTH BUREAU.	Darjeeling Hill Tracts.	Darjeeling	29.115	29.775	29.905	—	—	86.0	80.5	76.5	51.7	60.2	+0.4	61	+6	6.0	+0.1	0.60
	Purneah and North Bhagalpore.	Purneah	29.092	29.774	29.925	29.937	1.012	89.2	82.9	77.5	50.4	64.1	—1.0	54	—7	0.8	—	0.13
	Mozafferpore	Mozafferpore	(Observations suspended.)															
	Darbhanga	Darbhanga	29.070	29.720	29.878	29.904	1.011	81.0	80.5	71.4	52.3	64.0	+0.9	61	—2	1.7	—	NR
SOUTH BUREAU.	Chumpurn	Chumpurn	29.065	29.650	29.791	29.797	1.000	80.2	84.8	77.5	48.7	63.0	+1.5	40	—	2.4	—	NR
	Barna	Chupra	29.067	29.706	29.817	29.851	+0.001	80.5	80.0	78.0	53.1	61.7	+2.2	67	—	—	—	0.01
		Dehree	29.885	29.692	29.841	29.863	+0.010	88.1	80.5	76.2	48.2	60.7	+1.7	42	—	1.4	—	NR
	Shahabad	Barua	29.010	29.897	29.921	29.950	1.010	87.0	86.0	78.2	53.9	66.1	+1.8	64	—	2.2	—	Drop
SOUTH BUREAU.		Araha	29.031	29.640	29.787	29.802	1.006	80.5	80.0	78.3	52.0	65.0	+1.7	60	—	1.4	—	0.01
	Gya	Gya	29.012	29.607	29.765	29.766	—0.018	80.0	80.5	80.1	60.8	69.0	+0.4	43	0	2.2	—	Drop
	Patna	Bankipore	29.078	29.715	29.808	29.850	—0.002	80.8	85.8	78.1	63.4	65.8	+0.5	40	—8	2.2	—	NR
	South Bhagalpore and Monghyr.	Bhagalpore	29.050	29.744	29.884	29.902	1.001	80.4	88.0	78.8	64.8	64.0	+1.0	40	—	0.6	—	NR
SOUTH BUREAU.	South Pargannas	Nay: Dooka	29.081	29.709	29.828	—	+0.002	82.1	87.0	81.7	55.1	68.4	+1.0	39	—	0.4	—	0.05
	Hazratnagar	Hazratnagar	29.141	29.734	29.815	29.871	+0.030	80.5	85.8	79.7	51.5	65.0	—0.4	38	—5	2.3	—	0.01
	Lower Agga and Manikganj.	Kancher	29.012	29.701	29.765	29.807	+0.030	80.0	84.0	77.1	52.0	66.1	+1.5	64	—	1.9	—	0.71
	Shyambhun	Shyambhun	29.391	29.144	29.264	—	+0.044	80.4	83.0	81.5	59.8	71.5	+1.0	48	—	1.7	—	1.75
SOUTH BUREAU.		Silsagar	29.850	29.651	29.752	29.784	—0.005	82.5	84.0	71.0	51.4	63.7	0	67	+6	5.0	—	1.98
	Assam	Dimapur	29.079	29.772	29.822	29.844	—0.016	81.0	80.3	78.2	50.0	67.1	+0.5	64	0	1.8	—	0.01
SOUTH BUREAU.		Sukhar	29.050	29.880	29.900	29.900	+0.003	80.7	87.1	79.5	55.7	67.5	0	70	+8	2.0	—	1.17

* Mean of 27 days.

† Mean of 30 days.

Bengal for the month of February 1888.

DISTRICT OBSERVATIONS.										Representative stations.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.												
4th month.					Since 16th May 1887.							
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal number of rainy days.			
1.04	0.83	+0.19	4.0	1.7	46.47	57.36	-11.89	75.7	86.0	Gopulpore ...	Patna	Orissa.
1.34	0.70	+0.58	2.6	1.7	47.30	53.41	-6.11	79.6	82.5	Pulse Pond ...	Patna	Orissa.
2.34	0.96	+1.38	4.0	2.2	45.70	57.04	-11.34	71.1	79.0	Cuttack ...	Cuttack	Orissa.
3.46	1.26	+2.20	4.3	2.2	02.61	03.81	-1.20	87.0	87.0	Balason ...	Balason	Orissa.
1.03	0.96	+0.07	2.7	1.8	52.96	52.96	+0.00	71.2	74.4	Midnapore ...	Midnapore	Orissa.
1.00	1.22	+0.22	2.3	2.5	43.21	53.53	-10.32	79.2	93.6	Guliatla ...	24-Pargannas, Howrah, and Hooghly.	Orissa.
1.01	1.01	+0.00	2.3	2.1	47.28	47.77	-0.49	76.0	78.1	Bardwan ...	Bardwan	Orissa.
0.96	0.64	+0.32	2.0	2.0	51.46	52.80	-1.34	76.6	83.0	Bankura ...	Bankura	Orissa.
0.70	0.90	-0.20	1.8	2.0	48.74	53.40	-4.66	79.0	86.3	Ranagur ...	West Bardwan and Berchmans.	Orissa.
0.98	0.77	+0.21	2.3	1.7	60.12	50.59	+9.53	85.7	80.6	Borthom ...	Moorshedabad	Orissa.
1.10	1.64	+0.54	2.8	1.9	44.45	50.54	-6.09	77.6	80.3	Keshinagar ...	Sudder	Orissa.
0.91	1.12	-0.21	2.0	2.2	45.42	55.07	-9.65	80.4	87.4	Jessore ...	Jessore and Khosha	Orissa.
1.18	0.70	+0.48	4.0	1.5	101.07	113.73	-12.66	111.0	100.0	Chittagong ...	Chittagong	Orissa.
1.20	0.91	+0.29	4.0	2.1	105.05	83.13	+21.92	110.5	116.7	Dumaguri ...	Chittagong Hill Tracts	Orissa.
1.11	1.04	+0.07	2.3	2.1	02.40	70.35	-67.95	96.2	109.4	Barisal ...	Barkerganj	Orissa.
0.40	1.09	-0.69	2.4	2.3	74.79	110.79	-36.00	07.0	112.1	Nankhally ...	Nankhally	Orissa.
1.10	1.21	-0.11	2.3	2.3	37.71	57.81	-20.10	69.0	90.2	Furteehora ...	Furteehora	Orissa.
1.67	1.13	+0.54	3.2	2.5	42.59	63.29	-20.70	89.8	91.3	Dacca ...	Dacca	Orissa.
1.26	1.00	+0.26	2.3	2.5	41.41	72.50	-31.09	79.6	110.7	Comilla ...	Comilla	Orissa.
0.72	0.94	-0.22	2.0	1.8	61.56	68.63	-7.07	76.4	83.0	Mymensingh ...	Mymensingh	Orissa.
0.43	0.91	-0.48	1.8	1.5	60.57	57.08	+3.49	71.5	80.0	Roga ...	Roga	Orissa.
1.00	1.01	+0.01	3.5	1.0	45.02	51.96	-6.94	84.5	85.0	Sonpur ...	Pabna	Orissa.
1.13	0.88	+0.25	2.0	1.0	50.70	65.08	-14.38	65.0	79.3	Rampore ...	Rajshahi	Orissa.
0.17	0.63	-0.46	1.5	2.2	46.96	56.50	-9.54	74.0	87.2	Maldah ...	Maldah	Orissa.
0.34	0.43	-0.09	1.4	1.0	60.30	50.00	+10.30	80.4	70.4	Dumgaon ...	Dumgaon	Orissa.
0.13	0.43	-0.30	1.0	1.0	81.10	78.80	+2.30	78.8	77.6	Rangpur ...	Rangpur	Orissa.
0.30	0.30	+0.00	1.0	1.5	118.02	110.82	+7.20	93.0	90.3	Jalpaiguri ...	Jalpaiguri and Cooch Behar.	Orissa.
0.64	0.60	+0.04	2.5	2.7	118.82	121.71	-2.89	102.9	116.7	Darjeeling ...	Darjeeling Hill Tracts.	Orissa.
0.06	0.52	-0.46	0.8	1.4	45.37	56.55	-11.18	74.0	71.5	Para ...	Para and North Bhagpur.	Orissa.
NI	0.41	-0.41	0.0	1.6	47.35	63.71	-16.36	61.7	59.8	Moanipur ...	Moanipur	Orissa.
NI	0.43	-0.43	0.0	1.3	49.07	44.93	+4.14	54.0	59.8	Darbhanga ...	Darbhanga	Orissa.
NI	0.41	-0.41	0.0	1.2	49.82	46.96	+2.86	57.0	63.1	Motihari ...	Chhapra	Orissa.
NI	0.44	-0.44	0.0	1.4	40.25	43.00	-2.75	56.6	50.1	Chhapra ...	Saran	Orissa.
0.01	0.46	-0.45	0.2	1.5	38.63	40.00	-1.37	53.7	63.0	Delwa ...	Shahabad	Orissa.
0.01	0.44	-0.43	0.2	1.4	39.30	42.14	-2.84	60.3	63.0	Arrah ...	Arrah	Orissa.
NI	0.43	-0.43	0.0	1.4	36.21	41.00	-4.79	50.1	63.0	Gya ...	Gya	Orissa.
0.04	0.58	-0.54	0.0	1.5	47.03	47.73	-0.70	62.9	68.7	Bankipore ...	Patna	Orissa.
0.30	0.40	-0.10	1.3	1.5	63.16	61.02	+2.14	70.5	77.0	Bhagalpur ...	South Bhagalpur and Munger.	Orissa.
0.30	0.36	-0.06	1.3	1.6	48.04	51.10	-3.06	71.7	83.0	Naya Dhamka ...	South Pargannas	Orissa.
0.78	0.38	+0.40	2.0	2.2	46.25	48.32	-2.07	73.0	84.5	Hazaribagh ...	Hazaribagh	Orissa.
1.76	0.78	+0.98	4.0	2.1	55.03	52.32	+2.71	78.0	95.4	Kachan ...	Lohardaga and Manbhum.	Orissa.
0.00	0.00	+0.00	0.0	0.0	0.00	0.00	+0.00	0.0	0.0	Chyabata ...	Chyabata	Orissa.
0.00	0.00	+0.00	0.0	0.0	0.00	0.00	+0.00	0.0	0.0	Silchar ...	Silchar	Orissa.
0.00	0.00	+0.00	0.0	0.0	0.00	0.00	+0.00	0.0	0.0	Assam ...	Assam	Orissa.

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA	Purba	Pandua	...	...	...	...	...	...	...	...	...	0.35	...	...	0.08	...	0.02	1.03	0.43	...	...	...
		Khandah	...	...	...	...	...	...	...	...	...	...	...	...	0.05	...	0.02	0.00	...	...	...	...
		Banpur	...	...	...	...	...	...	...	...	...	...	0.07	...	0.04	...	0.00	0.10	...	...	...	...
		Fake Point	...	...	...	...	...	...	...	...	...	...	...	...	0.07	...	0.00	0.07	...	...	...	...
		Gap	...	...	...	...	...	...	...	...	...	...	...	...	0.07	...	0.00	0.00	...	...	...	...
	Cuttack	Pipli	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.10	...	...	...	...	...
		Jagatsinghpore	...	...	...	...	...	...	...	...	...	...	0.10	...	0.09	...	...	...	...	...	...	...
		Baaki	...	...	...	...	...	...	...	...	...	...	0.10	...	0.18	...	...	...	...	...	...	...
		Cuttack	...	...	...	...	...	...	...	...	...	...	0.20	...	0.12	...	...	...	...	...	...	...
		Khandagiri	...	...	...	...	...	...	...	...	...	...	0.23	...	0.12	...	...	0.20	...	...	...	...
	Balasore	Jajpur	...	...	...	...	...	...	...	...	...	...	0.22	...	0.12	...	...	0.20	...	...	...	...
		Pharasiada	...	...	...	...	...	...	...	...	...	...	...	...	0.08	...	0.20	...	...	...	...	...
		Naligore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandbali	...	...	...	...	...	...	...	...	...	...	1.20	...	...	...	...	...	...	...	...	...
		Khandagiri	...	...	...	...	...	...	...	...	...	...	1.20	...	...	0.17	0.05	...	0.20	...	...	...
SOUTH-WEST RAIL	Midnapore	Sonali	...	...	...	...	...	...	...	...	...	1.00	...	...	0.10	0.20	...	...	...	...	...	...
		Balasore	...	...	...	...	...	...	...	...	...	...	1.00	...	...	0.10	0.20	...	...	...	...	...
		Jajpur	...	...	...	...	...	...	...	...	...	...	0.02	...	0.05	0.08	0.10	...	...	...	...	...
		Burudabali	...	...	...	...	...	...	...	...	...	...	1.00	...	...	...	...	...	...	...	...	...
	
	S-Parganas	Dumuria Har- bour	...	...	...	...	...	...	...	...	...	...	1.20	1.10	...	...	1.21	...	...	...	...	...
		Canning Town	...	...	...	...	...	...	...	...	...	...	1.11	1.15	...	...	2.06	...	...	...	...	...
		Alipore Jail	...	...	...	...	...	...	...	...	...	...	1.09	1.20	...	...	0.93	...	...	...	...	...
		Barnesjore	...	...	...	...	...	...	...	...	...	...	0.09	1.07	...	...	...	...	...	...	...	...
		Dun Dum	...	...	...	...	...	...	...	...	...	...	0.27	1.07	...	...	...	...	...	...	...	...
	Howrah	Barasat	...	...	...	...	...	...	...	...	...	...	1.05	1.10	...	0.08	...	...	...	...	...	...
		Cossiphat	...	...	...	...	...	...	...	...	...	...	1.21	...	...	0.10	...	...	...	...	...	...
		Howrah	...	...	...	...	...	...	...	...	...	...	0.27	1.17	...	...	...	...	...	...	...	...
		Mahesh, Es (Chakbaruck).	...	...	...	...	...	...	...	...	...	...	0.05	1.16	...	...	0.12	...	...	...	...	...
Hooghly	Serampore	...	...	...	...	...	...	...	...	...	...	1.16	1.16	...	0.05	...	0.01	...	...	...	...
	Buchit, Jehanabad	...	...	...	...	...	...	...	...	...	...	1.15	...	...	...	...	...	...	...	...	...
Bardwan	Cochin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.10	...	...	...	...
	Bardwan	...	...	...	...	...	...	...	...	...	...	0.29	0.27	...	...	0.01	...	...	...	...	...
	Chakra	...	...	...	...	...	...	...	...	...	...	0.11	0.07	...	...	...	...	...	...	...	...
	Kanaiyabari	...	...	...	...	...	...	...	...	...	...	0.04	0.11	...	...	...	...	...	...	...	...
Bankura	Bankura	...	...	...	...	...	...	...	...	...	...	0.09	0.28	...	...	...	...	...	...	...	...
	Behulpore	...	...	...	...	...	...	...	...	...	...	0.08	0.08	...	...	...	...	...	...	...	...
	Mulark	...	...	...	...	...	...	...	...	...	...	0.08	0.02	...	...	...	...	...	...	...	...
	Khatra	...	...	...	...	...	...	...	...	...	...	0.05	0.05	...	...	...	...	...	...	...	...
	Andas	...	...	...	...	...	...	...	...	...	...	0.04	0.06	...	...	...	...	...	...	...	...
	Kolhapore	...	...	...	...	...	...	...	...	...	...	1.01	...	...	...	...	...	...	...	...	...
	Anda	...	...	...	...	...	...	...	...	...	...	0.20	...	...	...	...	...	...	...	...	...
	Kanaiyabari	...	...	...	...	...	...	...	...	...	...	0.05	...	...	...	...	...	...	...	...	...
	Raipur	...	...	...	...	...	...	...	...	...	...	1.00	0.13	...	...	...	...	...	...	...	...
	Saunandah	...	...	...	...	...	...	...	...	...	...	0.00	0.02	...	...	...	...	...	...	...	...
Berhampur	Bh. Bazar	...	...	...	...	...	...	...	...	...	...	0.31	0.21	...	...	...	...	...	...	...	...
	Berhampur	...	...	...	...	...	...	...	...	...	...	0.71	...	...	...	...	...	...	...	...	...
	Rampore (Hail Bazar)	...	...	...	...	...	...	...	...	...	...	0.11	0.22	...	...	...	...	...	...	...	...
Nuddea	Renuhati	...	...	...	...	...	...	...	...	...	...	0.21	0.04	...	...	0.0	0.02	...	...	...	...
	Kalimanghur	...	...	...	...	...	...	...	...	...	...	0.05	...	...	...	...	...	...	...	...	...
	Chowmahura	...	...	...	...	...	...	...	...	...	...	0.25	...	...	...	...	0.72	...	...	...	...
	Meherpore	...	...	...	...	...	...	...	...	...	...	0.70	...	...	0.17	...	...	...	...	...	...
Kharina	Kharina	...	...	...	...	...	...	...	...	...	...	0.08	0.01	...	...	0.74	...	...	...	...	...
	Bachhat	...	...	...	...	...	...	...	...	...	...	0.12	...	...	...	...	...	...	...	...	...
	Kharina	...	...	...	...	...	...	...	...	...	...	0.75	...	...	0.30	...	...	...	...	...	...
Jessore	Nawal	...	...	...	...	...	...	...	...	...	...	0.05	...	...	...	0.14	...	...	...	...	...
	Jessore	...	...	...	...	...	...	...	...	...	...	0.00	1.06	...	...	...	...	...	...	...	...
	Hajidilli	...	...	...	...	...	...	...	...	...	...	0.78	...	...	0.10	...	...	...	...	...	...
	Mogorah	...	...	...	...	...	...	...	...	...	...	0.70	...	...	...	...	0.18	...	...	...	...
	Bangong	...	...	...	...	...	...	...	...	...	...	0.12	1.12	...	...	...	...	...	...	...	...
Moorebhat	Kandi	...	...	...	...	...	...	...	...	...	...	0.28	...	...	...	...	...	...	...	...	...
	Berhampur	...	...	...	...	...	...	...	...	...	...	0.16	...	...	0.00	...	...	...	...	...	...
	Lalpur	...	...	...	...	...	...	...	...	...	...	0.01	0.25	...	...	0.11	...	...	...	...	...
	Kharina	...	...	...	...	...	...	...	...	...	...	0.00	0.18	...	...	0.23	...	...	...	...	...
	Kharina	...	...	...	...	...	...	...	...	...	...	0.08	0.01	...	...	...	...	...	...	...	...
	Kharina	...	...	...	...	...	...	...	...	...	...	0.20	...	...	...	...	...	...	...	...	...
	Kharina	...	...	...	...	...	...	...	...	...	...	0.20	...	...	0.73	...	...	...	...	...	...
EAST ORISSA	Chittagong	Cor's Bazar	...	...	...	...	...	...	...	...	...	0.20	...	...	...	...	0.00	0.02	0.02	0.02	0.02	0.02
		Chittagong	...	...	...	...	...	...	...	...	...	...	0.20	...	...	...	...	0.02	0.02	0.02	0.02	0.02
		Nafaranga	...	...	...	...	...	...	...	...	...	...	0.10	...	...	...	...	0.02	0.02	0.02	0.02	0.02
	Chittagong Hill Tracts.	Rangamati	...	...	...	...	...	...	...	...	...	...	0.40	...	...	0.05	...	0.16	...	0.05	0.05	0.05
	
	
	Buck-runge.	Patnakhali	...	...	...	...	...	...	...	...	...	...	0.60	...	...	0.02	...	...	...	...	...	...
		Patnakhali	...	...	...	...	...	...	...	...	...	...	0.61	...	...	0.02	...	...	...	...	...	...
	
	
	
	Noakhali	Noakhali	...	...	...	...	...	...	...	...	...	...	0.19	...	...	0.17	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	0.20	...	...	0.16	...	...	...	...	...	...
	

[illegible]

21	22	23	24	25	26	27	28	29	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1888 up to 30th February 1888.	Average rainfall from 1st January up to 30th February 1888.	Station.	District.	Meteorological division.
...	Hariaspore Rangpur.	Konkhal - conold.	East Bengal—conold.
...	Mukarpore, Farreepore, Goalundo.	Purandipora.	
...	Munshiganje, Dacca, Dacca, Narsinghganje, Munshiganje, Joydehpore.	Bacca.	
...	Agnetola, Comilla, Choudpore, Bonthambaria, Ramchandrapore, Naxarpanar, Bankimbi, Kachha, Laksham.	Hill Tipperah, Tipperah.	
...	Kishoraganje, Ayat (Tampail), Mysoreganj, Jangalpara, Noidokan, Salsoparkhatly, Pargapora, Dendagaj.	Mysoreganj.	
...	Pabna, Sirajganj, Sherpoore, Newkhata, Boara, Panchbhui, Beaulah, Natheo, Yagouah, Lalpara, Mandra.	Pabna, Sirajganj, Bogra.	NORTH BENGAL.
...	Maddah, Chapchad, Rajah, Subraj.	Maddah.	
...	Mohindrapore, Charmanot, Bagunge, Damgapore, Baloughat.	Damgapore.	
...	Bhaswaniganje (Gyakhanda), Kamgar, Kurigram, Madhora, (Niphomari) Clapere.	Rangpore.	
...	Julpore, H-p-r. Harp, Patancha, Dubung, Dahanua, Josen Behar, Muckiranga, Matamunga.	Julpore, Cooch Behar.	
...	Buxa, Nilgari, Darjeeling, Kalimpong, Kishanganje, Arunachal, Parwan, Gaudwara, Bad comppore, Muti tre, Kulaganj.	Darjeeling Hill, North Bhagal-pure.	SOUTH BEHAR.
...	Maddapora, Sonod, Protapanj, Tujpora, Durbhunga, Malhabana, Babera, Rothera.	Durbhunga.	
...	Atamathi, Mascherpore, Hajipore, Fara, Mahas, Sahar, Pupri.	Mosufenora.	
...	Motiari, Bet'ish, Bayaha, Durbhunga, Gomlange, Saran, Ohpra.	Ohmnapur.	

Table of Rainfall recorded at Stations

[illegible]

in Bengal for the month of February 1888—concluded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524
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**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF FEBRUARY 1888.**

THE normal meteorological conditions obtaining in the Province of Bengal during the month of February show clearly the commencement of the transition from the cold to the hot season, and the most important feature is undoubtedly the rapid increase of temperature, which usually commences this month, and which is continued during the following two or three months. The rapid increase in temperature is due to the rapidly increasing elevation of the sun, and this heating effect is much more pronounced over the land area than over the sea, so that the dry northerly winds at the southern stations commence to be replaced by moist southerly winds blowing from the sea. The normal conditions in Bengal during February are therefore comparatively simple. Temperature increases steadily, and winds are light, being usually west and north-west at the inland stations, though at the southern stations they alternate between north-west and south-west. The sky is clear and little or no rain falls; and humidity, except when the sea breezes are blowing, is low. These conditions are, however, liable to be disturbed by two or three causes; the first is due to the formation of barometric depressions over Northern and Central India, which drift eastwards and southwards giving heavily clouded skies, a moist atmosphere, and rain. The second class of disturbances is due to the interaction of the dry land winds and moist southerly winds, which sometimes produces the local storms known as nor'westers, and which are frequently accompanied by heavy rain. The third class of feeble disturbances are probably produced by ascensional air motion, and, with the rising of the moist winds, cloud is formed, and in some cases rain also occurs.

The whole of the rainfall in February is therefore brought about by these abnormal conditions, and it is generally irregularly distributed and small in amount, though larger than in January. The normal fall averages about an inch in South-West and East Bengal; it is somewhat smaller in amount in Orissa, where it averages about five-sixths of an inch; in Chutia Nagpur the fall averages about three quarters of an inch, and in North Bengal and Behar the fall equals about half an inch.

Meteorology of the month.—The chief features in the meteorology of February 1888 in Bengal have been—

1. Pressure has been in very slight excess of the normal over the greater part of the Province, the average excess, however, only equaling 0.009 inch. Some parts of East and Central Bengal have, however, shown pressures slightly below the normal.
2. Temperature has been decidedly above the normal in all districts, the excess being rather considerable in Orissa, North Bengal and South Behar, where it has ranged from 1° to 2°. The average excess over the whole Province has been 0.9°.
3. Humidity has been generally below the normal, the defect averaging about 5 per cent. over the whole Province.
4. Cloud proportion has been distinctly larger than usual, though the excess is not very considerable.
5. During the middle of the month two very feeble low-pressure areas drifted across Bengal in an easterly direction, giving a period of unsettled weather, which lasted in some districts from the 9th to the 15th or 17th, but which gave the most general disturbance on the 9th and 10th of the month.
6. Comparatively heavy rainfall has been received in Orissa; falls equal to about the normal amount have been received in East, South-West and North Bengal and in Chutia Nagpur, but in Behar rainfall has been almost absent.

At the commencement and during the first week of February, the meteorological conditions in Bengal call for no particular comment, except that the weather was of typical north-east monsoon character, temperature being exceedingly low and decidedly below the normal. On the 8th instant, however, pressure became rather low over parts of the Central Provinces and Orissa, and on the 9th a distinct low pressure area existed over Orissa, and this depression on the 10th was distinctly marked over Central and East Bengal, but it shortly afterwards disappeared. A second feeble area of low pressure was also formed over the Central Provinces, the North-West Provinces, and the western parts of the Province of Bengal on the 14th, but this did not concentrate into a definite depression. The combined effect of these two disturbances was to give unsettled weather with rain over Orissa from about the 9th to the 15th, over South-West Bengal from about the 9th to the 13th, and to East Bengal from the 10th to the 17th. The disturbed conditions scarcely reached North Behar at all, and in South Behar the disturbance was mainly confined to the Sonthal Pergunnah district on the 9th and 10th, while in North Bengal and Chutia Nagpur weather was also slightly disturbed on the same two days. After the disappearance of these two disturbances, weather became of ordinary north-east monsoon character for the remainder of the month, and the only point noticeable was the steady rise of temperature and some remarkable oscillations of humidity, the cause of which is explained in the summary of the normal meteorology of the month.

Pressure.—The variations of pressure during the month have been rather considerable, but the mean pressure for this period has not been very far removed from the normal; and thus, taking into consideration only those stations from which observations have been received for a series of years, and which therefore yield reliable averages, the mean pressure of the province for February has only been 0.009 inch in excess of the normal. Almost all

the stations in Bengal show an excess pressure, but in East Bengal one or two show slight defects. In Assam pressure has been below the normal by 0.005 inch, the largest defect being at Dhubri, where it has equalled 0.016 inch.

Temperature.—The variations of temperature during the month have been large, and during the early part very low temperatures were recorded. For the whole month the mean temperature of the province has been 0.9° in excess of the normal.

The actual variations and oscillations of temperature for the month are best shown in the following table, where the average maximum, minimum, and mean temperatures at nine typical stations in the province are given, week by week, and compared with the normals for the same periods. Speaking broadly, it may be said that temperature was very largely (from 4° to 6°) below the normal at the commencement of the month, while for the remainder it has been rather above it, or almost normal.

Monthly variation table of temperature from the weekly comparison table during February 1888.

	WEEK ENDING 3RD FEBRUARY 1888.			WEEK ENDING 10TH FEBRUARY 1888.			WEEK ENDING 17TH FEBRUARY 1888.			WEEK ENDING 24TH FEBRUARY 1888.		
	Variation of actual mean temperature from the normal mean.	Variation of actual maximum temperature from the normal maximum.	Variation of actual minimum temperature from the normal minimum.	Variation of actual mean temperature from the normal mean.	Variation of actual maximum temperature from the normal maximum.	Variation of actual minimum temperature from the normal minimum.	Variation of actual mean temperature from the normal mean.	Variation of actual maximum temperature from the normal maximum.	Variation of actual minimum temperature from the normal minimum.	Variation of actual mean temperature from the normal mean.	Variation of actual maximum temperature from the normal maximum.	Variation of actual minimum temperature from the normal minimum.
Cuttack	-0.4	-0.7	-0.5	-0.6	+4.2	+2.3	-1.3	+3.2	-0.6	+1.7	+1.4	+1.6
Caldcutta (Alipour).	-0.8	-2.8	-4.8	1.2	+1.2	0	-3.7	+1.2	-1.3	-0.5	-1.4	-0.9
Barrackpore	-0.7	-3.8	-4.8	-0.1	-0.1	-0.1	-4.7	+0.8	-2.0	-1.5	-1.5	-1.5
Burduwan	-7.1	-3.6	-5.4	-0.2	+7.5	+1.1	-1.7	+1.8	+0.9	-1.0	0	0
Patna (Bankipour).	-6.1	-2.3	-1.2	1.9	+4.1	-0.2	-0.7	+1.0	+0.2	+0.4	+1.1	+0.7
Gya	-6.9	-2.6	-1.7	+0.8	+2.1	+1.1	-1.3	+1.1	-0.2	+0.3	-0.1	+0.1
Purneah	-6.6	-1.9	-2.4	-2.7	+0.7	-1.0	-1.8	-1.7	-1.8	-1.1	-1.0	-1.1
Hazarybath	-7.2	-4.4	-5.8	-2.7	-0.1	1.5	-2.0	0.2	-1.5	-0.3	+1.1	+0.5
Dumchasing	-6.8	-2.3	-4.0	+4.1	+1.2	+1.2	-2.8	-2.4	-2.6	-0.4	+0.2	-0.1

In Assam the mean temperature has been almost absolutely normal, the variation being an excess of only 0.2°.

Rainfall.—Has averaged 1.66 inches at the stations in Orissa, which is nearly twice as large as the normal amount; the fall in South-West Bengal has averaged 1.29 inches or about a quarter more than the normal; in Orissa the fall has averaged 1.10 inch or about the normal fall; and the same is the case in Chittia Nagpur, where the actual fall has averaged 0.73 inch. In North Bengal the fall has only equalled 0.42 inch, which is about four-fifths of the normal amount, while rainfall has been practically absent in Behar.

The rainfall in Bengal during February has been decidedly heavy in the following districts:—Cuttack, Balasore, South-West Midnapore and South 24-Pergunnahs, Midnapore, 24-Pergunnahs, Howrah, Hooghly, Chittagong, Dacca, Pubna, Rajshahye, and Singbhoom.

In Assam, Sibsagar has received 2.95 inches during the month, Silchar 1.17 inches, and Dhubri only 2.06 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven Meteorological Divisions of the province for the month of February 1888:—

METEOROLOGICAL DIVISION.	TEMPERATURE.							RAINFALL.						
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of hourly observations of day and night.	Of month.			During day.			Normal average.	
			Of highest of day.	Of lowest of day.	Of mean for each day.		Average.	Normal average.	Variation.	Days of rain.				
										Average for month.	Normal average.	Variation.		
														Average for month.	Normal average.	Variation.
Orissa.	88.9	53.5	83.9	66.0	75.3	+1.3	1.03	0.86	1.080	0.4	19	+4.5	46.79	35.11
South-West Bengal	84.3	47.0	81.9	59.1	70.5	+0.1	1.29	1.03	0.626	0.3	21	+0.2	48.97	35.28
East Bengal	86.1	46.1	79.0	56.9	68.3	+0.3	1.10	1.01	0.009	2.8	22	+0.6	57.80	76.60
North Bengal	80.3	43.6	79.0	52.0	65.5	+1.7	0.42	0.78	-0.16	1.5	16	-0.3	74.25	76.65
North Bihar	80.6	41.8	76.9	51.0	64.4	+0.7	0.02	0.1	-0.43	0.2	14	-1.2	52.51	48.15
South Bihar	82.1	46.8	76.8	54.9	66.0	+1.1	0.08	0.1	-0.40	0.6	15	-0.8	42.76	44.58
Chittia Nagpur	88.0	45.9	76.9	54.7	65.8	+0.6	0.73	0.70	0.003	2.0	19	+0.1	49.31	50.14
Assam	88.7	41.0	76.2	54.4	65.8	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Chyobama not included.

METEOROLOGICAL OFFICE, BENGAL.

ALEXANDER PEDLER,

21st March 1888.

Off. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION	DISTRICT.	Representative station.	STATION OBSERVATIONS.											
			AIR PRESSURE.			WIND.			TEMPERATURE.					
			Mean barometric pressure at sea-level.	Mean reduced to sea-level.	Variation from 1871.	Prevailing direction.	Mean wind velocity.	Days at during which.	Wet day.	Dry day.	Mean daily temperature.	Mean of the daily temperature.	Mean of the daily temperature.	Mean of the daily temperature.
ORISSA.	Pooree	Gopalpore	29.91	29.86	-0.05	S	1.00	8.7	16th Mar.	71.3	1.4th Mar.	81.5	76.1	80.4
		False Point	29.92	29.89	-0.03	SSW	3.70	10.5	14th "	71.0	14th "	85.9	74.3	80.6
	Outlook	Outlook	29.89	29.86	-0.03	SSW	1.50	10.0	14th "	68.3	14th "	85.6	73.1	80.7
	Malasore	Malasore	29.84	29.81	-0.03	WSW	7.21	10.1	14th "	63.9	14th "	81.0	71.8	82.7
NORTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.93	29.90	-0.03	SSW	1.70	10.7	14th "	73.5	14th "	86.3	77.1	81.0
	South 24 Pargannas	Midnapore	29.79	29.76	-0.03	S	1.50	10.8	14th "	69.2	14th "	86.3	72.1	84.2
	24 Pargannas													
	Howrah	Calcutta	29.94	29.91	-0.03	SSW	1.70	10.5	14th "	63.3	14th "	88.8	71.4	80.1
	Hooghly													
	Burdwan	Burdwan	29.84	29.81	-0.03	S. by E.	1.00	10.3	12th "	69.2	14th "	84.1	74.1	80.1
	Banksora	Banksora	29.74	29.71	-0.03	W. by S.	1.00	10.3	12th "	64.2	14th "	84.9	70.3	82.4
	Roorbhoom	Roorbhoom	29.74	29.71	-0.03	SSW	1.00	10.3	12th "	67.9	14th "	84.2	70.6	82.1
	West Burdwan													
	Maansaband	Bethuam	29.84	29.81	-0.03	Easterly	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Naddea	Krishnachur	29.84	29.81	-0.03	WSW	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Jessore	Jessore	29.84	29.81	-0.03	SSW	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
PART BENGAL.	Khoulna	Khoulna	29.84	29.81	-0.03	SSW	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Chittagong	Chittagong	29.84	29.81	-0.03	SE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Chittagong Hill Tracts	Dumagiri												
	Backergunge	Harrison	29.84	29.81	-0.03	S	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Nankhelly	Nankhelly	29.84	29.81	-0.03	SSW & S.W.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Farrakka	Farrakka	29.84	29.81	-0.03	E.S.W.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Dacca	Dacca	29.84	29.81	-0.03	S. by E.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Comilla	Comilla	29.84	29.81	-0.03	S. by E.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Mymensingh	Mymensingh	29.84	29.81	-0.03	Easterly	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Bogra	Bogra	29.84	29.81	-0.03	E	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Patna	Serampore	29.84	29.81	-0.03	N. by E.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Kalyan	Kalyan	29.84	29.81	-0.03	N. by E.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
NORTH BENGAL.	Maldah	Maldah	29.84	29.81	-0.03	NW	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Dinapore	Dinapore	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Rangpore	Rangpore	29.84	29.81	-0.03	E	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Jalpaiguri	Jalpaiguri	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Teesta Bazar	Jalpaiguri	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Darjeeling Hill Tracts	Darjeeling	29.84	29.81	-0.03	Caln	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Pharwah	Pharwah	29.84	29.81	-0.03	Caln	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	North Bhagalpur	Pharwah	29.84	29.81	-0.03	Caln	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Bankura	Bankura	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Chandpur	Chandpur	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Chopra	Chopra	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Belur	Belur	29.84	29.81	-0.03	W. by S.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
SOUTH BENGAL.	Shahabad	Shahabad	29.84	29.81	-0.03	Northerly	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Arak	Arak	29.84	29.81	-0.03	E.W.	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Paik	Paik	29.84	29.81	-0.03	Caln	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Baran	Baran	29.84	29.81	-0.03	R	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	South Bhagalpur	Baran	29.84	29.81	-0.03	R	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Bankura	Bankura	29.84	29.81	-0.03	R	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	South Pargannas	Bankura	29.84	29.81	-0.03	ESE	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Haridwar	Haridwar	29.84	29.81	-0.03	W	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Lohardigha	Lohardigha	29.84	29.81	-0.03	W	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Manikganj	Manikganj	29.84	29.81	-0.03	W	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Chyabura	Chyabura	29.84	29.81	-0.03	SSW	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4
	Chyabura	Chyabura	29.84	29.81	-0.03	SSW	1.10	10.1	14th "	62.2	14th "	81.8	66.1	77.4

Explanation.—Summary.—The number means of air pressure and temperature are the actual means of the observations of the day. The humidity of the atmosphere is expressed as percentage saturated air being represented by 100. A minus sign indicates that the actual mean or average of the rainfall for the district concerned from the returns sent in for the year is less than the actual mean or average of the rainfall for the district in the same year. A minus sign is also used to indicate that the actual mean or average of the rainfall for the district concerned from the returns sent in for the year is less than the actual mean or average of the rainfall for the district in the same year.

or the week ending Friday, the 16th of March 1888.

DISTRICT OBSERVATIONS.															Representative station.		DISTRICT.		METEOROLOGICAL DIVISION.	
No.	Average humidity at 10 A.M.	Average cloud amount at 10 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.														
				Mean for district.	Normal month.	Since 1st of month.			Since 15th May 1887.			Average more or less than normal per 10 rainy days.	Normal number of rainy days.							
						Mean for district.	Normal month.	Variation.	Mean for district.	Normal month.	Variation.									
74	0	Nil	—	—	—	—	—	—	—	—	—	—	—	—	—	Gopalpur	Chittagong	CHITTAGONG.		
75	24	—	Nil	0.16	Nil	0.42	+0.26	46.47	47.76	+1.29	0.0	0.1	0.1	0.0	0.1	False Point	Chittagong	CHITTAGONG.		
76	14	Nil	0.07	0.27	0.08	0.08	+0.00	47.68	44.03	-3.65	0.2	0.1	0.1	0.1	0.1	Cuttack	Cuttack	CHITTAGONG.		
77	13	Nil	0.09	0.24	0.26	0.56	+0.30	45.00	45.62	+0.62	0.3	0.3	0.0	0.3	0.3	Balassore	Balassore	CHITTAGONG.		
78	44	0.02	Nil	0.19	0.22	0.30	+0.08	47.01	44.65	-2.36	0.0	0.0	0.0	0.0	0.0	Sankar Island	South-West Midnapore	CHITTAGONG.		
79	17	0.13	0.40	0.27	0.70	1.26	+0.56	53.65	53.43	-0.22	0.7	0.6	0.1	0.6	0.6	Haldimari	Midnapore	CHITTAGONG.		
80	46	2.21	0.61	0.14	1.63	0.75	+0.88	49.21	47.20	-2.01	1.3	0.5	0.8	0.5	0.5	Calcutta	Howrah	CHITTAGONG.		
81	34	0.07	0.55	0.12	0.72	0.02	+0.70	47.38	48.41	+1.03	1.3	0.5	0.8	0.5	0.5	Bardwan	Bardwan	CHITTAGONG.		
82	13	Nil	0.03	0.21	0.12	0.50	+0.38	51.57	53.57	+2.00	0.3	0.5	0.2	0.3	0.3	Bankura	Bankura	CHITTAGONG.		
83	21	0.31	0.52	0.53	0.55	0.57	+0.02	49.00	53.82	+4.82	0.3	0.5	0.2	0.3	0.3	Rauregan	Berhampur	CHITTAGONG.		
84	43	0.21	0.55	0.17	0.41	0.40	+0.01	50.51	50.91	+0.40	1.7	0.5	0.8	0.5	0.5	Berhampur	Berhampur	CHITTAGONG.		
85	43	0.50	2.05	0.16	2.11	0.68	+0.52	51.50	51.20	-0.30	2.0	0.3	0.3	0.3	0.3	Keshungpur	Nalanda	CHITTAGONG.		
86	07	1.00	1.52	0.75	1.34	0.90	+0.44	45.70	55.92	+10.22	2.3	0.6	0.6	0.6	0.6	Jessore	Jessore	CHITTAGONG.		
87	46	1.04	0.43	0.08	0.30	0.88	+0.58	101.57	116.20	+14.63	2.5	0.3	0.3	0.3	0.3	Chittagong	Chittagong	CHITTAGONG.		
88	37	1.20	0.44	0.18	1.16	1.00	+0.16	61.01	50.31	-10.70	2.5	0.5	0.2	0.5	0.5	Demerga	Chittagong Hill Tracts	CHITTAGONG.		
89	03	2.54	3.08	0.21	3.21	1.74	+1.47	78.30	112.00	+33.70	5.0	0.5	0.5	0.5	0.5	Barrack	Barrackpore	CHITTAGONG.		
90	29	4.70	3.80	0.22	3.61	1.12	+2.49	41.01	58.74	+17.73	3.7	0.5	0.5	0.5	0.5	Purandarpore	Purandarpore	CHITTAGONG.		
91	46	5.02	4.40	0.28	4.56	0.90	+3.66	47.15	63.18	+16.03	3.0	0.5	0.5	0.5	0.5	Dacca	Dacca	CHITTAGONG.		
92	59	3.13	4.10	0.30	4.62	1.38	+1.34	48.87	73.86	+24.99	4.3	0.8	0.8	0.8	0.8	Comilla	Comilla	CHITTAGONG.		
93	53	1.85	1.92	0.25	1.97	0.65	+1.12	63.15	60.50	-2.65	2.0	0.5	0.5	0.5	0.5	Mymensingh	Mymensingh	CHITTAGONG.		
94	89	0.02	0.30	0.08	0.33	0.40	+0.07	61.30	53.44	+7.86	1.5	0.4	0.4	0.4	0.4	Bogra	Bogra	CHITTAGONG.		
95	84	1.28	1.72	0.22	1.70	0.70	+1.00	47.08	50.74	+3.66	2.5	0.5	0.5	0.5	0.5	Scrumpore	Pabna	CHITTAGONG.		
96	34	7	1.12	0.10	1.30	0.35	+0.85	51.95	65.30	+13.35	2.5	0.1	0.1	0.1	0.1	Rampur Bowdich	Rajshahi	CHITTAGONG.		
97	47	0.01	0.17	0.08	0.17	0.21	+0.04	47.02	35.01	-12.01	1.5	0.3	0.3	0.3	0.3	Maldah	Maldah	CHITTAGONG.		
98	69	0.10	0.52	0.07	0.51	0.25	+0.26	60.25	50.35	-9.90	0.8	0.5	0.5	0.5	0.5	Dumkora	Dumkora	CHITTAGONG.		
99	41	2.75	2.34	0.11	2.57	0.42	+2.15	52.46	74.32	+21.86	2.8	0.4	0.4	0.4	0.4	Rangpur	Rangpur	CHITTAGONG.		
100	54	3.58	4.18	0.15	4.23	0.37	+3.86	120.31	111.31	-9.00	3.8	0.5	0.5	0.5	0.5	Jalpaiguri	Jalpaiguri	CHITTAGONG.		
101	69	0.01	2.77	0.32	2.77	0.54	+2.23	120.31	122.30	+2.00	4.5	0.6	0.6	0.6	0.6	Haripur	Haripur	CHITTAGONG.		
102	53	0.03	0.97	0.03	0.97	0.21	+0.76	60.34	58.79	-1.55	1.0	0.3	0.3	0.3	0.3	Purnea	Purnea	CHITTAGONG.		
103	71	0.01	0.23	0.06	0.23	0.20	+0.03	47.57	44.04	-3.53	1.0	0.5	0.5	0.5	0.5	North Bhatgaon	North Bhatgaon	CHITTAGONG.		
104	81	Nil	0.05	0.09	0.09	0.20	+0.11	50.00	45.01	-4.99	1.0	0.5	0.5	0.5	0.5	Barisal	Barisal	CHITTAGONG.		
105	31	Nil	0.15	0.05	0.15	0.25	+0.10	48.27	47.24	-1.03	0.5	0.5	0.5	0.5	0.5	Moulvibazar	Moulvibazar	CHITTAGONG.		
106	14	0.02	0.12	0.04	0.12	0.17	+0.05	48.37	45.72	-2.65	0.7	0.4	0.4	0.4	0.4	Chittagong	Saran	CHITTAGONG.		
107	14	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	Barisal	Barisal	CHITTAGONG.		
108	14	0.03	0.02	0.00	0.02	0.26	+0.24	30.31	42.40	+12.09	0.5	0.3	0.3	0.3	0.3	Barisal	Barisal	CHITTAGONG.		
109	14	Nil	0.01	0.07	Nil	0.17	+0.17	36.61	42.10	+5.49	0.0	0.3	0.3	0.3	0.3	Barisal	Barisal	CHITTAGONG.		
110	11	Nil	Nil	0.00	Nil	0.20	+0.20	43.00	43.00	0.00	0.0	0.3	0.3	0.3	0.3	Barisal	Barisal	CHITTAGONG.		
111	14	0.23	0.23	0.13	0.23	0.35	+0.12	50.41	51.39	+0.98	1.5	0.4	0.4	0.4	0.4	Barisal	Barisal	CHITTAGONG.		
112	20	0.05	0.05	0.05	0.05	0.70	+0.65	47.61	51.55	+3.94	0.5	0.3	0.3	0.3	0.3	Barisal	Barisal	CHITTAGONG.		
113	10	0.02	0.02	0.02	0.02	0.41	+0.39	48.45	48.45	0.00	0.5	0.3	0.3	0.3	0.3	Barisal	Barisal	CHITTAGONG.		
114	20	0.02	0.02	0.02	0.02	0.70	+0.68	47.61	51.55	+3.94	0.5	0.3	0.3	0.3	0.3	Barisal	Barisal	CHITTAGONG.		

Under the head District observations of rainfall the normal means of the normal years recorded in the district, i.e., from the total rainfall as the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 16th of March 1888.

Meteorological division.	District.	Station.	Rainfall.							Total.		Total rain-fall since 1st of month.	Average total rain-fall since 1st of month.	Total rain-fall since 15th May 1887.	Average rainfall from 15th May to date.
			15th March.	16th March.	17th March.	18th March.	19th March.	20th March.	21st March.	No. of days.	in week.				
Orissa.	Purba.	Purba.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.35	50.19	51.24
		Kharakh.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.30	39.59	39.15
		Bamun.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.29	39.79	39.35
		Palsi, Ponds.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.51	7.01	65.74
		Pipti.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	20.22	?
	Cutback.	Jagatsinghpore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.54	33.68	40.05
		Baka.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.05	1.01	54.33
		Cuttack.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.78	50.32	50.08
		Kemharpore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.18	28.33	37.09
		Jalpur.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.39	50.06	54.11
	Balasore.	Dharamtilla.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	44.19	?
		Saltipore.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	?	51.21	?
		Chandbali.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.56	43.01	55.72
		Bhandrak.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	47.32	53.82
		Sorah.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.79	41.50	54.15
North-West Bengal.	Midnapore.	Bahadur.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.19	51.78	53.08
		Saigra Island.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	7.04	54.50
		Tamra.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.17	53.63	53.43
		M. D. D. D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.20	49.15	50.06
		R. D. D. D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.10	58.25	59.05
	24-Pennamals.	Diamond Har.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.11	51.78	53.08
		Caning Pura.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Alipore J. D.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Bahadur.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Bahadur.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
	Howrah.	Howrah.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Howrah.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Howrah.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Howrah.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Howrah.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
East Bengal.	Burdwan.	Burdwan.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Burdwan.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Burdwan.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Burdwan.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Burdwan.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
	Bankura.	Bankura.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Bankura.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Bankura.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Bankura.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Bankura.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
	Hooghly.	Hooghly.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Hooghly.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Hooghly.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Hooghly.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Hooghly.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
East Bengal.	Chittagong.	Chittagong.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Chittagong.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Chittagong.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Chittagong.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Chittagong.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
	Moulvibazar.	Moulvibazar.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Moulvibazar.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Moulvibazar.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Moulvibazar.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Moulvibazar.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
	Dacca.	Dacca.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Dacca.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Dacca.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Dacca.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08
		Dacca.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.15	51.78	53.08

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 16th of March 1888—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday, 10th March.	Sunday, 11th March.	Monday, 12th March.	Tuesday, 13th March.	Wednesday, 14th March.	Thursday, 15th March.	Friday, 16th March.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noakhally.	Gourmaddi Bomphei	0.39			0.07	0.08	0.01		2	1.04	1.04	1.04	42.48	?
		Noakhally Ferry		0.06	0.09	0.75	0.50	0.28		5	2.54	2.54	1.67	77.34	119.28
		Harichpur		1.80	0.41	1.30	0.18	0.16	0.00	6	4.25	4.25	1.82	79.28	119.54
		Kampanj		1.70		1.65	2.27	0.29							
	Furruckpore.	Madaripore				1.20	0.30	0.14	0.24	4	1.88	1.88	1.45	38.10	69.36
		Furruckpore Gomunda		2.45		2.35	0.70			3	5.50	5.50	1.10	45.14	36.72
	Dacca.	Gomunda		0.45	0.60	0.63	2.34			4	3.02	3.02	0.81	61.20	69.36
		Munshiganj		2.10		1.40	1.07			3	4.57	4.57	1.77	40.37	78.26
		Dacca		2.25	2.18	0.88				3	5.31	5.31	0.70	53.21	81.02
		Narainganj		2.01		1.02	1.34			3	5.07	5.07	0.48	50.00	63.64
	Hill Tipperah Tipperah.	Manickganj		0.37		1.04	0.62			3	2.03	2.03	0.58	38.28	53.64
		Jaydebore		2.44		0.81	0.43			3	3.68	3.68		63.72	
		Agarala			1.16	2.05	0.08			3	4.78	4.78	1.20	40.00	66.20
		Comilla		1.43		0.28	0.66	0.07	0.00	5	2.44	2.44	1.17	55.14	60.14
	Mymensingh.	Chandpore		2.00		1.20	0.70	0.20	0.15	5	4.25	4.25	0.58	60.41	60.81
		Brinhaburja		1.44	0.16	2.20	0.44			5	3.06	3.10		42.06	
		Ramchandrapore.			1.45	0.79	0.82			3	3.06	3.10		42.06	
		Nasirnagar		1.12		0.30	0.57	0.10		4	2.20	2.20		34.50	
	Mymensingh.	Daudkandi		0.25		0.58	0.40			3	2.23	2.23		39.70	
		Kosha			3.50										
		Laksham			0.80	0.08	0.22	0.00	0.01	5	3.10	3.19		32.40	
		Kishoreganj		1.02		0.32	0.20			2	1.54	1.79	1.10	05.40	72.40
	Pabna.	Aala (Tongai)				0.35	0.78			2	1.54	1.79	0.65	42.64	68.62
		Mymensingh		1.27		0.64	0.17			3	1.98	1.90	0.64	71.42	76.12
		Jamulpore		0.37		0.00		0.19		3	0.56	0.65	0.30	49.41	67.03
		Narainganj		1.70		1.56	0.80			3	4.06	4.00	0.43	74.38	72.01
	Bogra.	Subarnakhal				0.70	0.20			2	0.90	0.90		23.45	
		Durgapore		1.70		1.00	1.10			3	3.80	3.46		119.27	
		Dewanganj		0.51		0.52	0.84			3	1.90	1.90		84.80	
		Pabna		0.17		1.05	0.34			3	2.00	2.12	0.87	41.57	60.81
NORTH BENGAL.	Bogra.	Soraganj				1.06	0.32			2	1.38	1.40	0.63	63.74	64.40
		Sherpore				0.31	0.04			2	0.25	0.25	0.50	48.64	60.63
		Nowahilly		0.05		0.04				2	0.11	0.13	0.47	60.13	56.03
		Panchbibi				0.00	0.06			2	0.06	0.06	0.25	60.00	55.47
	Rajshahi.	Beaulah			0.05	0.83	0.65	0.01		4	0.99	0.70	0.38	54.00	64.00
		Battore				1.25				1	1.25	1.30	0.32	50.30	60.06
		Naugan								Nil	Nil	Nil		02.02	
		Lalpur				0.37	0.47			2	0.84	0.64		37.32	
	Malda.	Mania				0.11				1	0.11	0.23		02.05	
		Malda					0.01			1	0.01	0.01	0.29	48.81	52.60
		Chanchal				0.24	0.05			2	0.29	0.23	0.13	64.16	64.76
		Gajol				0.10	0.20			2	0.30	0.20		51.00	
	Hingaganj.	Bidyanj				0.03				1	0.03	0.03		53.05	
		Hingaganj								Nil	Nil	0.04	0.14	09.52	68.40
		Churamun				0.48				1	0.48	0.18	0.17	59.01	53.12
		Rajmang				0.06				1	0.06	0.06	0.10	74.01	67.01
	Kungpore.	Dumkapore				0.60				1	0.60	0.06	0.44	59.00	63.62
		Kaloorghat				0.62				1	0.62	0.06	0.22	62.37	61.06
		Kungpore		0.70		0.87				2	1.57	1.57	0.52	69.23	62.30
		Kungpore (Gyabanda)													
	Jalpaiguri.	Kungpore		2.48	0.02	0.14		0.02		4	2.68	2.68	0.51	83.09	75.28
		Kurigram		0.03		0.05				3	2.30	2.30	0.42	77.05	75.06
		Budoga		1.00		0.85				2	2.30	2.30	0.25	104.81	66.11
		Niphomari.													
	Cooch Behar.	Dispur		1.36		0.92				2	2.77	2.77		64.26	
		Jalpaiguri		2.18		1.10				2	3.28	3.28	0.41	126.04	117.06
		Alipore		0.05		0.82				2	1.77	1.77		142.04	
		Falacua		1.04	0.46	1.30			0.10	4	3.94	3.94		140.94	
	Darjeeling Hill.	Dabiganj		1.25		0.94				2	2.22	2.22		86.97	
		Darbhanga		0.01	0.55	0.75		0.15		4	2.46	2.34	0.32	104.36	66.30
		Cooch Behar		0.05	0.05	1.12		0.27		4	2.08	2.08	0.30	124.72	110.03
		Mokhiganj		0.03		0.63		0.06		3	0.75	1.00	0.36	129.06	107.17
WEST BENGAL.	Darjeeling Hill.	Masabbinga		0.40	0.40	0.02	1.10	0.02	0.07	5	2.94	2.94	2.56	119.37	117.00
		Buxa		0.45	0.70	1.11	1.04	0.03	0.50	7	5.70	5.70	0.92	176.46	134.76
		Biliguri		1.37	0.35	0.06	0.87	0.08		5	2.63	2.33	0.29	110.07	10.7.6
		Darjeeling		0.34		0.18	0.70			3	0.91	0.91	0.68	110.00	111.00
	Purneah.	Kalimpong		0.72	0.06	0.81	0.20			4	1.79	1.79	0.37	85.48	61.08
		Kisanganj					0.08			1	0.08	0.65	0.27	85.30	70.30
		Arram				1.50				1	1.50	1.50	0.30	64.58	64.58
		Purneah					0.01			1	0.01	0.65	0.16	67.47	61.18
	North Bhagalpore.	Gondwara				0.45				1	0.45	0.62			
		Balerupore								Nil	Nil	1.75		60.24	
		Masuri				0.00	0.85			1	1.75	1.75		85.08	
		Kataganj								Nil	Nil	Nil		20.30	
	Dumkapore.	Kataganj				1.74				1	1.74	1.74	0.16	65.18	40.02
		Masaganj				0.85				1	0.85	0.85	0.19	63.21	40.02
		Prothaganj				0.83				1	0.83	0.83		67.11	
		Tajpore				0.10				1	0.10	0.10	0.10	44.30	43.00
	Dumkapore.	Dumkapore				1.05				1	1.05	1.05	0.16	68.05	40.00
		Madhubani				0.63				1	0.63	0.63	0.20	56.35	46.35
		Kishore				0.90				1	0.90	0.90		65.12	
		Kishore								Nil	Nil	Nil		40.02	
	Moulvibazar.	Summari				0.40				1	0.40	0.40	0.16	60.74	42.76
		Moulvibazar				0.21				1	0.21	0.13	0.24	43.12	40.04
		Kalipore				0.03				1	0.03	0.03	0.15	37.04	42.04
		Pore								Nil	Nil	Nil		41.04	
	Chandpur.	Masuri								Nil	Nil	Nil			
		Masuri				0.00				1	0.00	0.50			
		Pore				1.30				1	0.30	0.30			
		Masuri								Nil	Nil	Nil	0.28	69.50	60.00
	Chandpur.	Masuri				0.30				1	0.30	0.30	0.28	40.12	40.00
		Masuri				0.14				1	0.14	0.14		40.12	
		Masuri								1	0.14	0.14		40.12	
		Masuri								1	0.14	0.14		40.12	

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 16th of March 1888.—*continued.*

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1887.	Average rainfall from 15th May to date.
			Saturday, 10th March.	Sunday, 11th March.	Monday, 12th March.	Tuesday, 13th March.	Wednesday, 14th March.	Thursday, 15th March.	Friday, 16th March.	Number of rainy days.	of Rainfall week.				
NORTH BHAR	Serun	Gopalpur...	0.07						1	0.07	0.07	0.02	42.95	44.73	
		Bowman...							Nil	Nil	1.01	0.13	30.74	40.02	
SOUTH BHAR	Shahabad	Phuntari...	0.28						1	0.28	0.28	0.23	34.70	41.34	
		Buzar...							Nil	Nil	Nil	0.23	34.73	39.46	
Denoree...								0.13	0.12	0.13	?	39.78	?		
Khutonal...								Nil	Nil	Nil	7.68	41.88	41.81		
Kameram...								0.08	0.08	0.08	0.17	36.53	41.58		
Arwar...								Nil	Nil	Nil	0.21	41.34	40.89		
Mohania...								Nil	Nil	Nil	?	?	?		
	Gya	Aurangabad...							Nil	Nil	Nil	0.24	30.90	43.75	
		Gya...							0.08	0.08	0.08	0.20	43.17	43.96	
		Nowada...							0.07	0.07	0.07	0.28	38.01	41.00	
		Sehansid...							Nil	Nil	Nil	0.23	40.77	41.34	
		Arwal...							Nil	Nil	Nil	?	41.15	?	
		Handwagar...							Nil	Nil	Nil	?	39.01	?	
		Shoraphat...							Nil	Nil	Nil	?	30.45	?	
	Patna	Rajaul...							Nil	Nil	Nil	?	?	?	
		Pakri Harwan...							Nil	Nil	Nil	?	22.24	?	
		Patna...							Nil	Nil	Nil	0.13	37.17	42.88	
		Dumapote...							Nil	Nil	Nil	0.13	38.44	42.04	
		Behar...							Nil	Nil	Nil	0.21	35.54	43.00	
		Barer...							Nil	Nil	Nil	0.22	30.08	40.07	
		Sickram...							Nil	Nil	Nil	?	40.05	?	
	Monghyr	Hilsa...							Nil	Nil	Nil	?	34.84	?	
		Begowara...							Nil	Nil	Nil	0.12	40.08	40.57	
		Monghyr...							Nil	Nil	Nil	0.10	47.24	47.22	
		Jamun...							Nil	Nil	Nil	0.20	40.03	40.05	
		Gogri...							Nil	Nil	Nil	?	42.03	?	
		Shekpara...							Nil	Nil	Nil	?	38.58	?	
		Hakuljore...							Nil	Nil	Nil	0.18	41.23	43.10	
South Bhagulpore	Hakul...							Nil	Nil	Nil	0.24	39.08	44.01		
	Kolung...							Nil	Nil	Nil	?	43.45	?		
	Sonthal Pergumaha...							Nil	Nil	Nil	0.22	37.98	39.85		
	Godan...							Nil	Nil	Nil	0.25	40.36	40.46		
	Pasour...				0.29			1	0.20	0.34	0.24	39.05	39.08		
	Nya Doomba...	0.30	0.16	0.04	0.04	0.04	0.04	4	0.35	0.35	0.40	40.04	39.84		
	Dookhur...	0.33				0.19		3	0.43	0.43	0.42	37.47	37.39		
CENTRAL NAG-PUR.	Hazaribagh	Jalitha...							1	0.19	0.19	0.62	40.24	40.09	
		Sonrai...	0.02						1	0.02	0.02	?	36.91	?	
		Pachumb...							Nil	Nil	Nil	0.56	42.00	42.58	
		(Giridi)...							Nil	Nil	Nil	0.07	47.09	47.46	
		Hazari...				0.08			2	0.08	0.08	1.10	41.27	47.79	
		Sontakuran...							Nil	Nil	Nil	0.75	40.35	40.35	
		Manadi Hilsa...							Nil	Nil	Nil	1.02	39.80	40.05	
	Lehardugga	Jhooirah Hilsa...							Nil	Nil	Nil	?	39.70	?	
		Bara...							Nil	Nil	Nil	?	39.10	?	
		Chakra...							1	0.13	0.13	?	39.10	?	
		Karagaha...							Nil	Nil	Nil	?	39.40	?	
		Namphar...							Nil	Nil	Nil	?	31.84	?	
		Lehardugga...				0.13	0.25		2	0.38	0.43	?	37.59	?	
		Laschi...							Nil	Nil	Nil	0.58	38.38	38.80	
	Mingbloom	Palamow...							Nil	Nil	Nil	0.42	30.71	43.90	
		Silk...							Nil	Nil	Nil	?	?	?	
		Balimal...							Nil	Nil	Nil	?	?	?	
		Homenabad...							Nil	Nil	Nil	0.69	31.30	?	
		Garnah...							Nil	Nil	Nil	?	34.83	?	
		Chyowama...							Nil	Nil	Nil	0.78	29.03	39.0	
		Chakradhar...							1	0.05	0.05	?	41.27	?	
	Manbloom	Chaitilla...							Nil	Nil	Nil	?	35.70	?	
		Bunragura...							Nil	Nil	Nil	?	41.15	?	
		Parula...							Nil	Nil	Nil	0.57	46.55	39.8	
		Gobindipore...							2	0.38	0.38	0.40	39.79	40.0	
		Raghunath...							Nil	Nil	Nil	?	38.04	?	
		Barrahoom...							Nil	Nil	Nil	?	43.31	?	
		Shaida...							Nil	Nil	Nil	?	?	?	
		Chat...							1	0.13	0.13	?	?	?	

Explanation.—Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 21st March 1888.

SUMMARY OF THE RAINFALL AND METEOROLOGICAL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 16TH MARCH 1888.

THE weather conditions during the past week have been more or less unsettled. The barometer was low and below its normal height at the commencement, and was also irregular in its movements. There was also a tendency to a slight but distinctly marked depression in North and Central Bengal. The barometric changes of the 10th brought it into greater prominence on the 11th, and a strong rush of southerly winds set in over South Bengal into the area of low pressure. Thunderstorms occurred on the 10th and 11th in North and East Bengal and the eastern districts of South-West Bengal, and some very heavy showers fell, more especially in the Dacca, Rungpore and Julpigoree districts. A very rapid rise of the barometer occurred on the 12th, but it fell again rapidly on the 13th. Strong southerly winds continued to blow on the 12th and 13th notwithstanding the rapid barometric changes, and a second series of thunderstorms occurred on the 13th and 14th which were more general, and gave even a larger amount of rain than the first series. They extended over East and North Bengal, and nearly the whole of South-West Bengal and North Behar. The rainfall during this series of storms was especially heavy in the Dacca, Furreedpore, Nuddea, Jessore, Mymensingh, Julpigoree and Cooch Behar districts. The barometer moved irregularly but slightly during the remainder of the week, but the southerly winds fell off in strength on the 15th and 16th, and the weather became somewhat less unsettled. Local thunder-showers occurred, chiefly in East Bengal and the northern districts of North Bengal, but the amounts registered were generally small.

Pressure.—The general character of the variations of pressure has been stated in the previous paragraph. The most remarkable feature of the week was the rapid rise of pressure which followed the first series of thunderstorms on the 11th and 12th. It varied from one to two-tenths of an inch. It was followed by nearly as rapid a fall of pressure on the 14th, which immediately preceded the more violent thunderstorms, and the heaviest rainfall of the second series. A reference to the general table will show that the mean pressure variations for the week differed considerably for different parts of the province. Pressure was on the whole slightly above the average in East and North Bengal, which received by far the largest amount of rain, and below it in South-West Bengal, Orissa, Behar (except Purneah), and Chota Nagpur. The deficiency of pressure was actually greatest at Calcutta and Burdwan, where it was very nearly $\cdot 04''$.

Temperature.—The temperature variations of the week depended mainly upon the occurrence and amount of the rainfall. Thus in East and North Bengal the mean temperature of the week was considerably below the normal, the deficiency averaging 3° in North Bengal and $2\frac{1}{2}^{\circ}$ in East Bengal. In the remainder of the province the temperature of the week was above the average, the excess being 3° in Chota Nagpur and 2° in South Behar and Orissa. Cuttack registered the highest day temperatures during the week, the maximum being $101\cdot 9^{\circ}$ on the 16th.

The following table gives a comparative statement of the temperature data of the week at nine typical stations:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 16th March 1888.

	Normal mean maxi- mum tem- perature for the week ending 16th March.	Actual mean maxi- mum tem- perature for the week ending 16th March 1888.	Variation of actual mean from the nor- mal.	Normal mean mini- mum tem- perature for the week ending 16th March.	Actual mean mini- mum tem- perature for the week ending 16th March 1888.	Variation of actual mean from the nor- mal.	Normal mean daily tempera- ture for the week ending 16th March.	Actual mean daily tempera- ture for the week ending 16th March 1888.	Variation of actual mean from the nor- mal.
Cuttack	88.3	98.0	+1.7	71.0	73.4	+1.4	84.1	85.7	+1.6
Calcutta	90.5	89.8	-.7	69.1	71.4	+2.3	79.8	80.1	+0.3
Dacca	90.9	83.4	-7.5	68.2	66.1	-2.1	79.2	74.8	-4.4
Burdwan	92.8	94.1	+1.3	68.2	70.1	+1.9	80.5	82.1	+1.6
Patna	90.9	88.9	-2.0	61.9	63.9	+2.0	76.4	77.4	+1.0
Gya	92.6	92.8	+0.2	61.6	63.8	+2.2	78.0	80.0	+2.0
Purneah	89.7	94.8	+5.1	59.4	63.4	+4.0	71.6	74.1	+2.5
Hazaribagh	87.1	90.1	+3.0	62.6	65.4	+2.8	74.9	77.7	+2.8
Darjeeling	86.4	82.8	-3.6	41.9	41.6	-.3	49.2	47.2	-2.0

Rainfall.—An unusually large amount of rain has fallen during the week, chiefly in connection with two extensive series of thunderstorms and nor'westers. The first series occurred on the 10th and 11th, and was almost entirely confined to East and North Bengal and the southern and eastern districts of South-West Bengal (including the 24-Pergunnahs and Jessore). Rainfalls exceeding two inches were received at a large number of stations in the Dacca and Furreedpore districts on the 11th. Some local showers fell on the 12th, but were generally of little importance. The second series of thunderstorms commenced on the 13th and lasted until the end of the week, but were most general on the 13th and 14th. They extended over the whole of North and East Bengal, and the greater part of South-West Bengal and North Behar, in which districts moderate to heavy rain was

generally received. A few light local showers were also received in other districts, more especially in the Sonthal Pargannas. The rainfall of the 13th was very heavy in the Dacca, Furreedpore and Nudden districts, where the majority of the stations received over two inches, and in the northern districts of North Bengal.

The following districts received an average rainfall for the week exceeding two inches:—Dacca 4.49 inches, Commillah 4.1 inches, Furreedpore 3.8 inches, Noakhelly 3.38 inches, Darjeeling 2.77 inches, Rungpur 2.34 inches, Julpigoree 2.18 inches, and Nudden 2.05 inches.

The rainfall of the week was very considerably in excess in the whole of Bengal and North Behar, and was below the average in Orissa, South Behar and Chota Nagpur. The following table gives a comparative statement showing the character of the rainfall of the week in each of the seven meteorological divisions of the province:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st of May 1887.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	101.0	68.3	80.7	73.9	82.8	+1.8	0.06	0.28	-0.17	0.2	0.6	-0.4	0.10	0.35	54.51	56.67
South-West Bengal	100.8	62.0	81.9	70.6	81.3	+1.3	0.76	0.16	+0.60	1.4	0.5	+0.9	0.06	0.67	49.68	68.93
East Bengal	89.8	50.6	83.0	60.0	74.5	-2.5	2.80	0.27	+2.53	3.3	0.6	+2.7	3.00	1.10	60.04	77.79
North Bengal	83.2	54.4	82.3	63.1	72.7	-3.0	1.25	0.11	+1.14	2.2	0.4	+1.8	1.32	0.30	73.57	71.11
North Behar	92.0	57.3	85.9	64.3	75.1	+0.7	0.50	0.05	+0.45	1.0	0.4	+0.6	0.40	0.22	53.07	49.18
South Behar	95.1	63.8	90.4	68.6	78.5	+1.0	0.07	0.00	-0.02	0.2	0.4	+0.1	0.08	0.02	42.85	44.70
Chota Nagpur	87.5	63.6	80.6	63.0	71.8	+3.1	0.05	0.33	-0.28	0.5	0.6	-0.3	0.03	0.71	46.56	50.53

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

T. ELIOT,

The 20th March 1888.

for Offg. Meteorological Reporter to the Govt of Bengal.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 11th to 17th March 1888.

MONTH.	Date.	TEMPERATURE.				Mean wet bulb.	HYGROMETRI.			Rain.
		Mean.	Maximum.	Range.	Minimum.		Vapour tension.	Dew point.	Humidity.	
1888.		"	"	"	"	"	Inches.	"	%	Inches.
March	11th	80.5	91.5	18.7	72.8	76.9	.878	76.8	85	
"	12th	79.7	91.5	17.3	74.2	75.6	.882	73.7	82	
"	13th	79.9	88.5	14.5	74.0	76.5	.868	74.9	85	
"	14th	87.0	92.4	19.8	72.5	76.7	.892	74.7	82	
"	15th	81.2	93.6	23.5	70.1	74.1	.740	70.6	71	0.52
"	16th	81.9	92.0	17.4	74.6	76.2	.828	73.5	76	
"	17th	80.0	93.5	25.4	68.1	72.5	.898	68.5	68	

The mean temperature of the seven days

...

80.6

The extreme variation of temperature

...

25.5

The maximum temperature

...

93.6

The mean relative humidity

...

78

Inches.

The total fall of rain from 11th to 17th March 1888

...

0.52

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA;

JOHN ELIOT,

The 19th March 1888.

Offg. Meteorological Reporter to the Govt of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 11th to 17th March 1888.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1888.		O		Inches	O	O	O	O	O	Inches	O	%			Inches.	
Mar.	11th	144.1	5.2	29.803	80.2	89.2	16.5	72.7	75.5	0.821	73.2	80	SSW and S	222	Nil	Partially cloudy, o.
"	12th	145.4	7.3	84.5	81.3	89.5	16.0	71.5	76.0	831	73.6	79	S and S.W	102	"	Chiefly cloudy, o.
"	13th	146.6	2.1	84.9	80.7	87.0	12.8	74.2	75.6	820	73.2	79	S and SSW	209	"	Chiefly cloudy, t, <.
"	14th	146.5	9.1	80.2	79.1	90.0	17.2	72.8	71.3	786	72.0	80	SSW and variable...	104	1.41	Chiefly cloudy o, b, p, K, ▲.
"	15th	144.9	10.1	82.6	80.1	91.4	23.7	67.7	73.0	718	69.3	73	S by W and WNW	48	Nil	Clear, p.
"	16th	143.5	8.5	81.5	81.0	89.2	14.6	74.6	74.8	781	71.8	75	SSW and variable...	77	"	Chiefly cloudy.
"	17th	147.5	10.8	86.0	79.8	91.1	22.8	68.3	72.1	688	68.1	70	WSW and SSW	91	"	Chiefly clear.

The mean pressure of the seven days ... 29.857
The average pressure of the corresponding period for 24 years, S. G.'s Office ... 29.833

The total number of hours of bright sunshine ... 57.4
The maximum possible number of hours of sunshine ... 83.6

The mean temperature of the seven days ... 80.3
The average temperature of the corresponding period for 24 years, S. G.'s Office ... 80.0
The extreme variation of temperature ... 23.7
The maximum temperature ... 91.4

The highest velocity of the wind in one hour ... 19

The highest pressure of wind on one square foot ... 6

The mean relative humidity ... 77
The average relative humidity of the corresponding period for 24 years, S. G.'s Office ... 66

The total fall of rain from 11th to 17th March 1888 ... 1.41
The average fall of the corresponding period for 24 years, S. G.'s Office ... 0.15
The total fall from 1st January to 17th March 1888 ... 4.89
The average fall of the corresponding period for 24 years, S. G.'s Office ... 2.39

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, < lightning, K thunderstorm, ▲ hail, Δ dew.

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METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 19th March 1888.